

2
January, 1891



CATALOGUE



—HOTEL—

ANNUNCIATORS

BELLS, PUSHES,

AND OTHER

HOUSE GOODS.

MANUFACTURED BY

WESTERN ELECTRIC COMPANY,

—CHICAGO—

NEW YORK.

LONDON.

ANTWERP.

BERLIN.

PARIS.

Philip Allen
March, 10. 1891

CATALOGUE

OF

BELLS,

FIRE ALARM AND ROOM CALLS,

ANNUNCIATORS,

PUSHES, PULLS, ELECTRIC GAS LIGHTING AND
ELECTRIC BURGLAR ALARMS

FOR

HOTELS, RESIDENCES, STEAMSHIPS, OFFICES,
STORES, ETC.

MANUFACTURED BY

WESTERN ELECTRIC CO.

CHICAGO — NEW YORK — LONDON — ANTWERP
BERLIN — PARIS.

JANUARY, 1891.

PREFACE.

In presenting you with our Catalogue for 1891, we call your attention to the varied style of Annunciators, Bells, Pushes, Pulls, and other Apparatus illustrated therein.

Our goods are so well known for their superiority in workmanship and quality of finish, that it is only necessary to say that they will be kept up to our usual standard; and we will make prices as low as consistent with the quality of the goods offered.

We are at all times endeavoring to reduce the cost of our apparatus without at all allowing the quality to deteriorate, and will give our customers the benefit of any such reduction that we may be able to make.

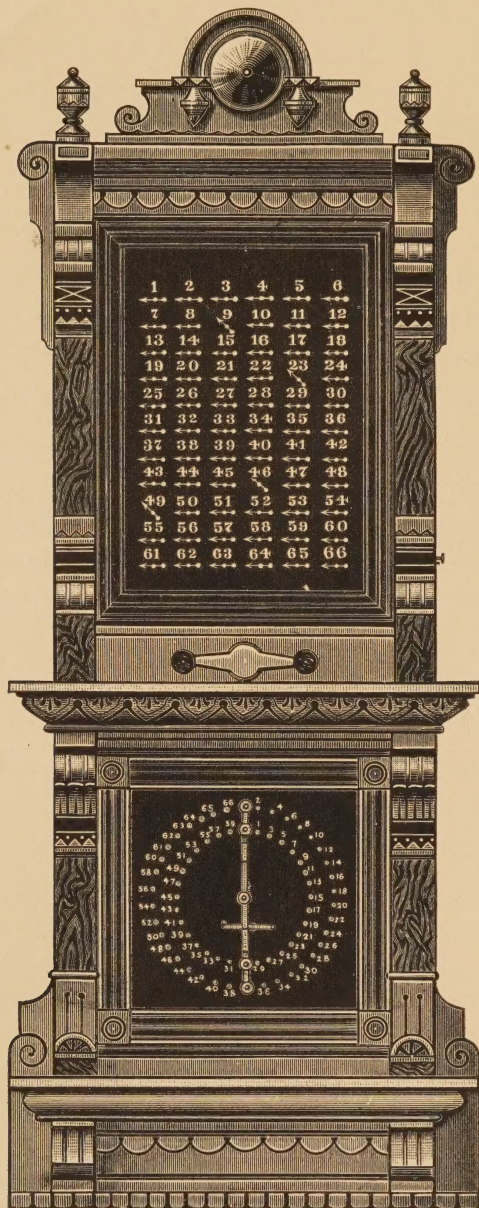
The utility of the Annunciators, Call Bells and other Electric Apparatus for use in Hotels, Residences, Steamships, Offices, Stores, Public Buildings and Elevators, is so well known that it is unnecessary to make any remarks regarding the same; however, we will be pleased to answer all questions and furnish such information as may be of advantage to any of our customers.

WESTERN ELECTRIC COMPANY.

ANNUNCIATORS.

THE Needle Annunciator is an invention entirely original with us, and for nimbleness, certainty of action and durability is much superior to any other. We can furnish the cases of Rosewood, Mahogany, Black Walnut, Ash, Oak, or any other wood suited to the furniture and finish of the room where the apparatus is to be located, and of any special design desired.

In ordering, always state whether Hotel, Elevator, House Call, or Burglar Alarm; kind of wood wanted, and indications or lettering. If Elevator Annunciator, state where it is to be located, name of building, street and number.

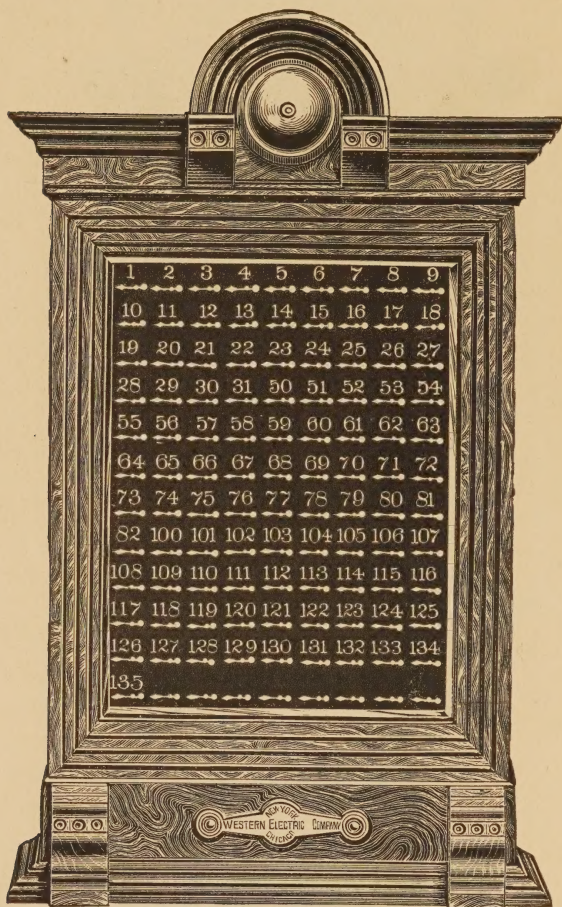


Hotel Annunciator, with Fire Alarm and Room Call.



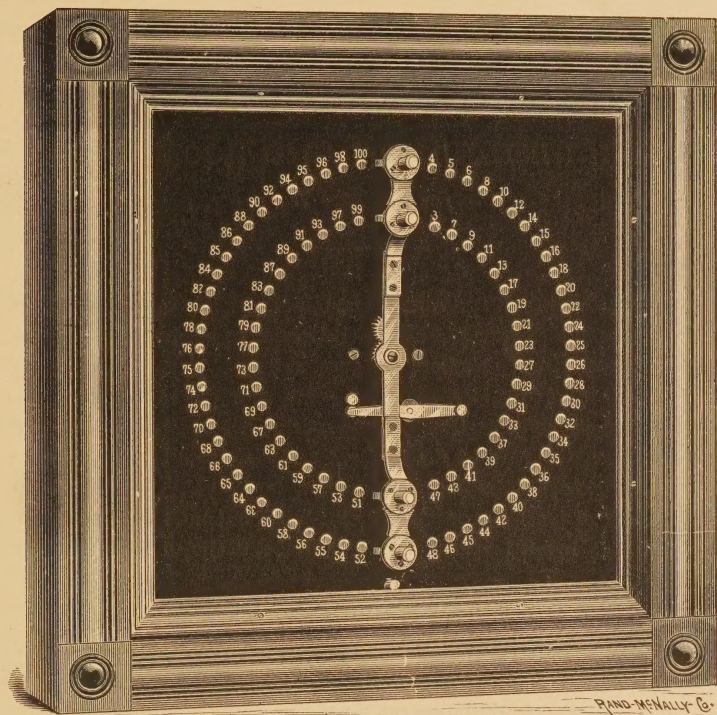
No. 501. Hotel Annunciator.

Price, from 30 Indications and upwards, per Indication.....\$2 50



No. 2. Hotel Annunciator.

Price, from 30 Indications upwards, per Indication.....\$2⁰⁰



No. 507. Automatic Fire Alarm and Room Call.

From 30 to 50 numbers.....\$2 50 per No.
Above 50 numbers..... 2 00 “

✱

No. 507½. Mechanical, is same as above, but operated mechanically.

From 30 to 50 numbers.....\$2 00 per No.
Above 50 numbers..... 1 50 “

HOTEL FIRE ALARM AND ROOM CALL.

See Cut, page 7.

Notwithstanding all that science and building skill have done during the past few years in the better and safer construction of hotels, there is nothing so much dreaded alike by landlord and guest as fire.

The many hotel fires in the last few years, with their startling record of lives lost and property destroyed, show conclusively that the most careful watchfulness on the part of the landlord and assistants is not sufficient to prevent their almost periodical occurrence.

Inventive genius has done much, by the introduction of stand-pipes and fire escapes, to lessen the danger in case of fire, but until the introduction of our

IMPROVED HOTEL FIRE ALARM,

no absolutely reliable means had been invented for automatically arousing every sleeping guest in a burning hotel, no matter how large the structure.

The cut represents our Improved Hotel Fire Alarm and Room Call Apparatus, which is placed in the office. In each room of the hotel there is a bell, which is connected with the series of push buttons shown in the cut. By simply releasing a lever or arm, the bell in every room is rung twice during each revolution of the lever, and the revolutions continue until long after every guest has safely left the burning building.

This system, on account of its ingenious and reliable construction, can always be depended upon as a fire alarm. No large battery is required to operate it, and its daily use as a Room Call is a constant test of its readiness for use in case of fire.

AS A ROOM CALL.

The value of this system is not alone in its capacity as a reliable fire alarm. With it, the clerk can instantly answer the call of an impatient guest; can call a guest at any hour, thus avoiding the necessity of sending the porter to rouse a sleeping guest by pounding on the door, to the annoyance of the occupants of adjoining rooms; or can ascertain at once if a guest is in his

room by simply pressing the button on the Fire Alarm Dial corresponding to the room he desires to call. Our apparatus is so arranged that the call bells in the rooms will give but a single tap when used as a call, and ring as vibrating bells when operated as a fire alarm.

The advantages of our system are as follows :

First—Only five or six cells of battery are necessary to operate all the bells in the largest hotel. This feature is of great importance. A system that requires from fifty to one hundred and fifty cells of battery is liable to be neglected, and in a large house it is almost impossible to test the alarm without disturbing the guests.

Second—As only one series of wires is required for the Annunciator and Fire Alarm, a great saving in first cost and also in maintenance is thus assured.

Third—It is the only system in operation where distinct and separate action of the bells is secured—when used as a call, or as a fire alarm.

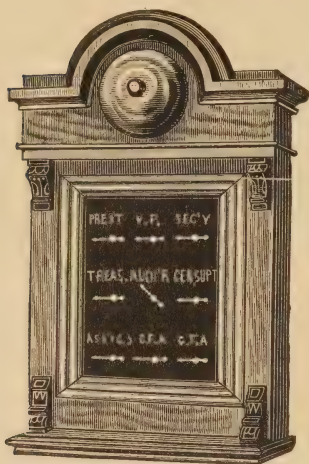
Fourth—As no large and expensive battery is required, and no duplicate series of wires necessary to be kept in repair, it is therefore economical.

Fifth—The fire alarm and lines are tested every time a call is made, either to or from the rooms ; hence it is reliable.

Sixth—Our system can be connected to the nearest fire-engine house, giving the fire department instant notice when the fire alarm is operated.

We make our apparatus in two forms, as shown in the illustrations. The combined Annunciator and Fire Alarm Dial makes an elegant piece of office furniture. Where the Annunciator is already in operation we make the Dial as shown in the small cut.

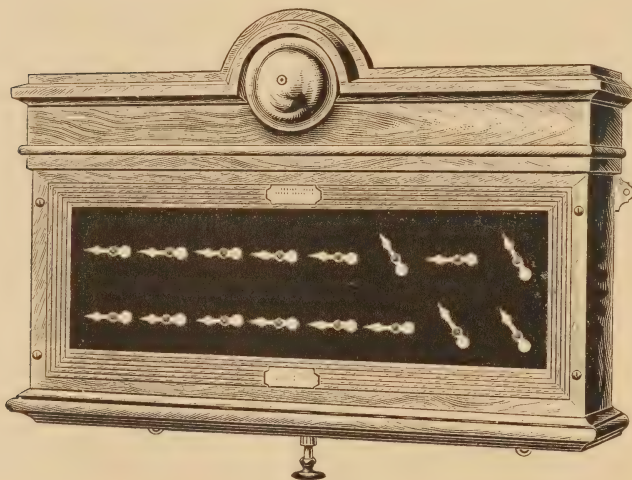
We connect our system to any make of Electric Annunciator without the necessity of running a new series of wires. We will be pleased to correspond with hotel proprietors and others interested in regard to our apparatus.



No. 502.
Call Annunciator.



No. 503.
Burglar-Alarm Annunciator.



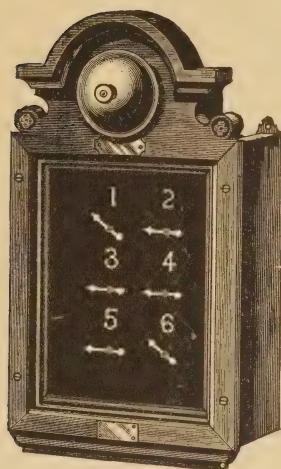
Car Annunciator.

CALL AND CAR.

4 Indications.....	\$20 00
6 "	25 00
8 "	30 00
9 "	32 00
10 "	35 00
12 "	38 00
15 "	45 00
20 "	50 00

BURGLAR ALARM.

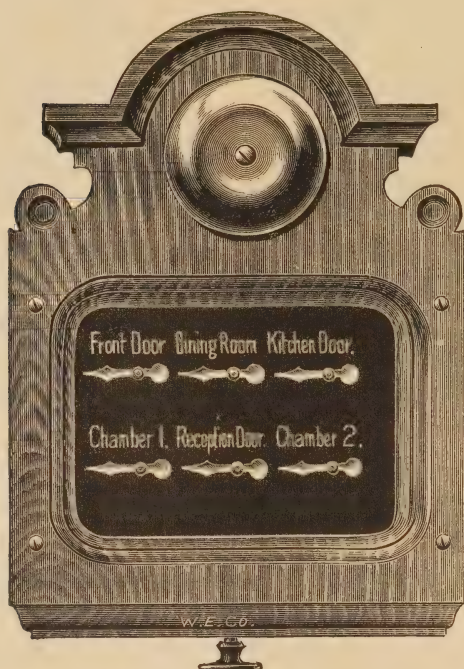
4 Indications.....	\$27 50
6 "	35 00
8 "	42 50
9 "	45 00
10 "	50 00
12 "	55 00
15 "	62 50
20 "	75 00



"C" Style Call Annunciator.

Cases, Oak and Ash, natural wood ; Walnut, Cherry, Mahogany, stained white wood. Indications : numbered from one up.

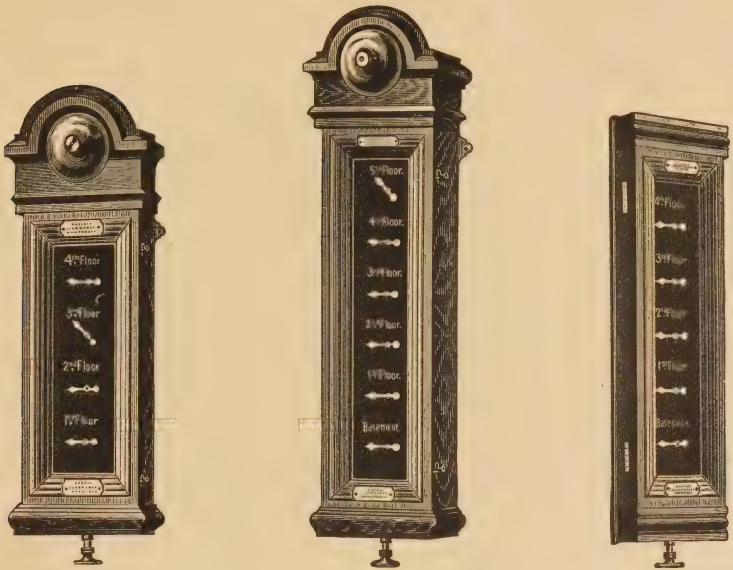
4 Drop.....	\$10 00
6 "	14 00
8 "	18 00
9 "	20 00
10 "	22 00
12 "	24 00



No. 2. Call Annunciator.

Cases, Walnut, Antique Oak, Ash, Natural Cherry and Cherry Mahogany finish. We will number indications, if desired, without extra charge; lettering extra.

4 Indications.....	\$10 00
6 ".....	12 50
8 ".....	15 00
9 ".....	16 00
10 ".....	17 50
12 ".....	19 00



No. 502 1-2.

No. 503 1-2.

No. 505 1-2.

ELEVATOR ANNUNCIATORS.

Same prices as House Calls.

No. 505½ can be furnished with flat back, or beveled to fit into the corner of elevator cab.

Under patents Nos. 148,447 and 172,993, we control Electric Annunciators and Cables for elevators.

In addition to the price of Elevator Annunciators, we charge the following royalties :

3 numbers.....	\$10 00
4 " 	15 00
5 " 	20 00
6 numbers and upwards.....	25 00

CABLES FOR ELEVATOR ANNUNCIATORS.

4 Conductor (for 3 No. Annunciator).....	30c.	per foot
5 " " 4 " " 	32½c.	"
6 " " 5 " " 	35c.	"
7 " " 6 " " 	37½c.	"
8 " " 7 " " 	40c.	"
9 " " 8 " " 	42½c.	"
10 " " 9 " " 	45c.	"

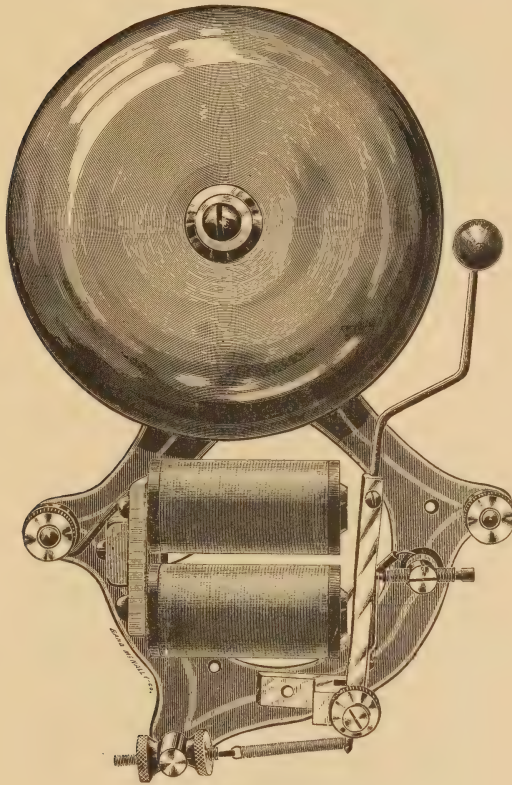
ELECTRIC BELLS.

We manufacture three different styles of Electric Bells: Skeleton, Iron Box and Wooden Box; the skeleton being used for the larger and the box for the smaller sizes of gongs.

We spare no expense to make them durable and reliable, and to their superiority we attribute much of the success that has attended their use in the past.

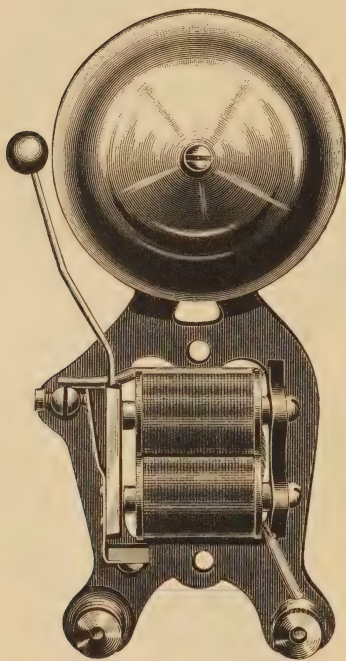
We call particular attention to our new Iron Box Bell No. 1006, and to our new Wood Box Bell No. 512½. These we can recommend for use where a low-priced bell is wanted.

In cases where the sound of the bell would be louder than desired, we recommend our Buzzer, which produces a humming or buzzing sound, and does not attract the attention that the bell would. Our Turtle Gong and Electro-mechanical Gong are specially designed for loud calls in large halls, at railroad crossings, and for fire alarm purposes, and being thoroughly made, are perfectly reliable.



No. 508. Skeleton.

4-inch Gong.....	\$4 50
5 " "	5 50
6 " "	8 00
7 " "	9 00
4 " " Lock Attachment.....	9 00
4 " " Continuity Attachment.....	9 00



No. 509. Skeleton.

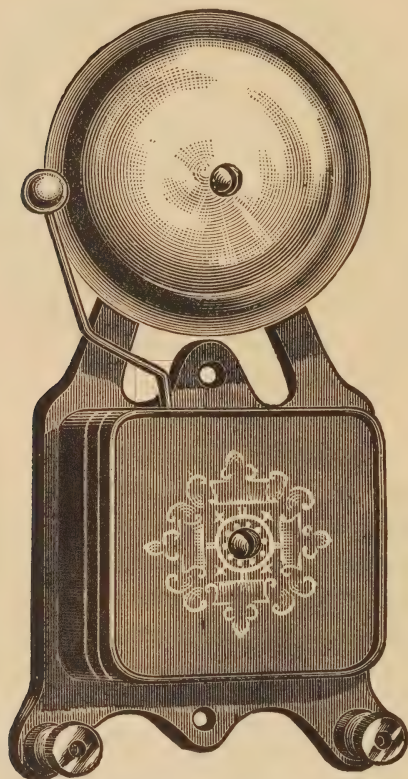
With 2½-inch Gong	\$1 20
“ 3 “ “	1 30



(CUT FULL SIZE.)

No. 1006. Iron Box.

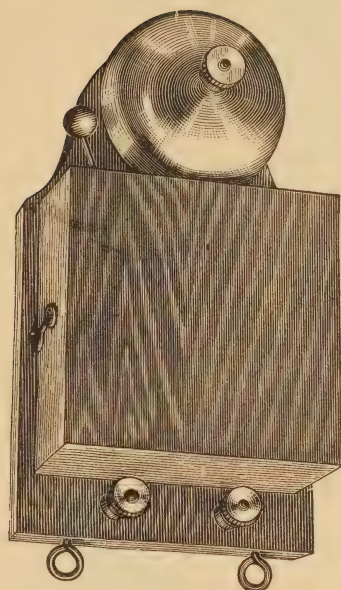
With 2½ inch Gong	\$1 30
“ 3 “ “	1 40



No. 511. Iron Box.

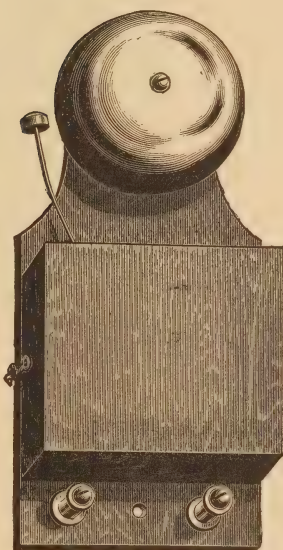
Box $2\frac{1}{2} \times 2\frac{3}{4}$.

With $2\frac{1}{2}$ -inch Gong.....	\$1 70
“ 3 “ “	1 80
“ 4 “ “	2 00



No. 512. Wood Box.

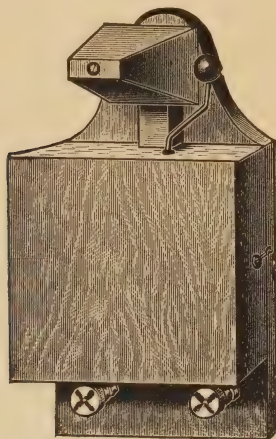
Box..... $3\frac{3}{8} \times 3\frac{7}{8}$.



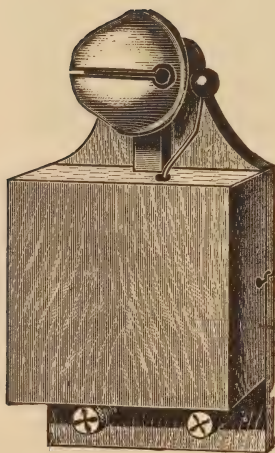
No. 512 1-2. Wood Box.

Box..... $3\frac{1}{8} \times 2\frac{1}{8} \times 1\frac{1}{8}$.

	No. 512.	No. 512½.
With $2\frac{1}{2}$ inch Gong.....	\$1 70	\$1 30
“ 3 “ “	1 80	1 40
“ 4 “ “	2 00	....



No. 514. Cow Bell, \$2 20.

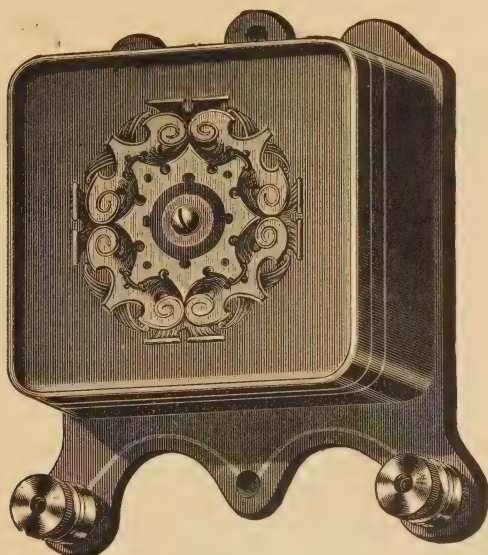


No. 515. Sleigh Bell, \$2 20.

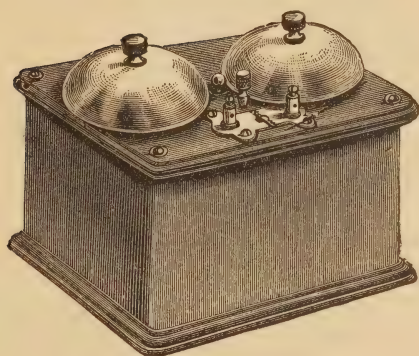


No. 516. Tea Bell, \$2 20.

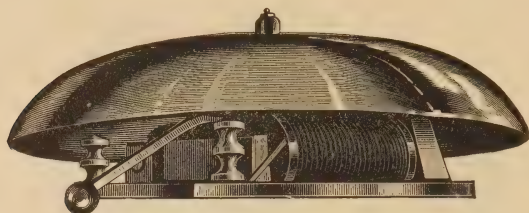
The above in Wooden Boxes.



No. 520. Buzzer, \$1 80.

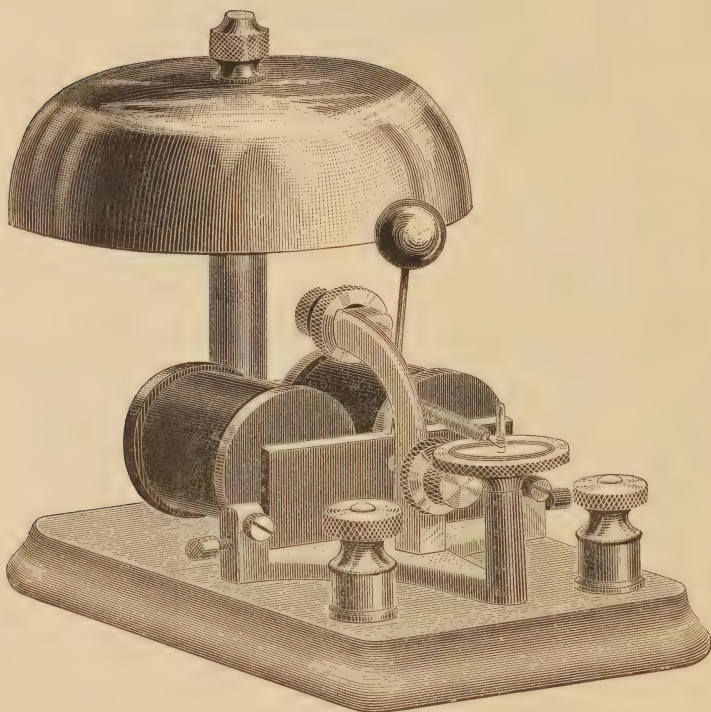


No. 521. Extension Bell, \$3 75.

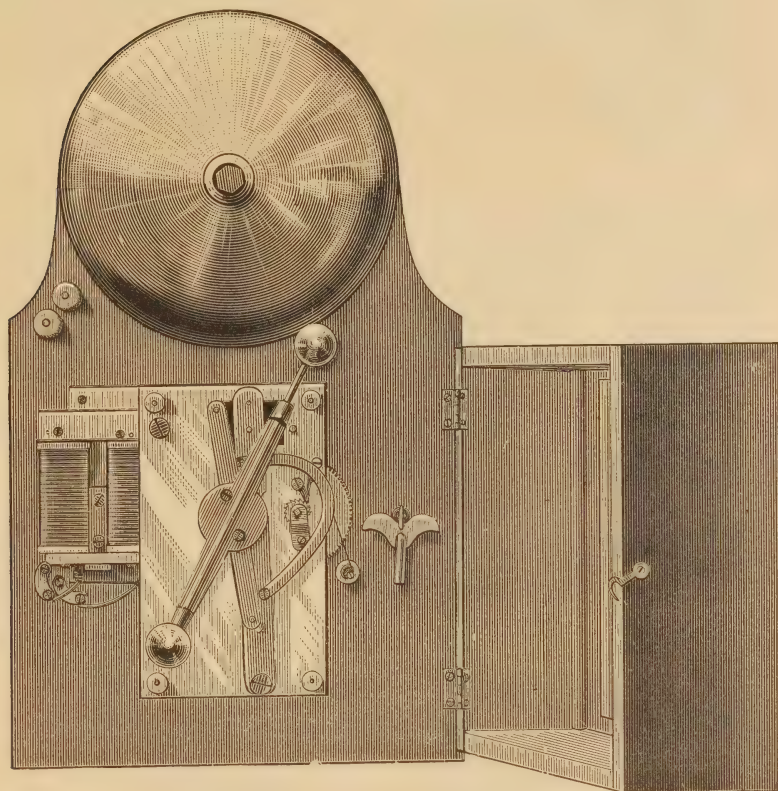


No. 517. Turtle Gong.

12-inch.....\$20 00



Relay Bell, \$4 00.



No. 518. Electro-Mechanical Gong.

8-inch.....	\$25 00
10 ".....	26 00
12 ".....	28 00
14 ".....	30 00
16 ".....	40 00
18 ".....	48 00
20 ".....	55 00



No. 563. Electric Bell Outfit.

Boxed.....\$2 75

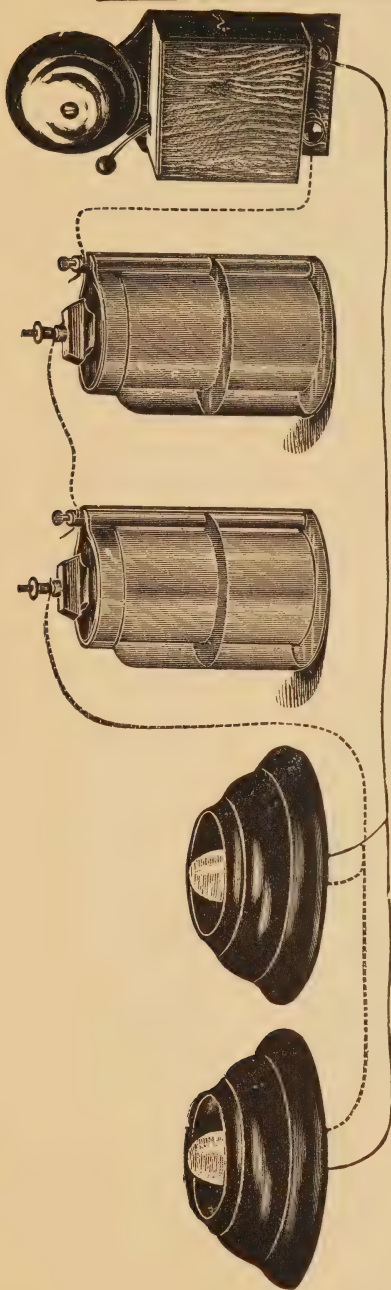


Diagram showing circuit for two Push Buttons for a single Bell.

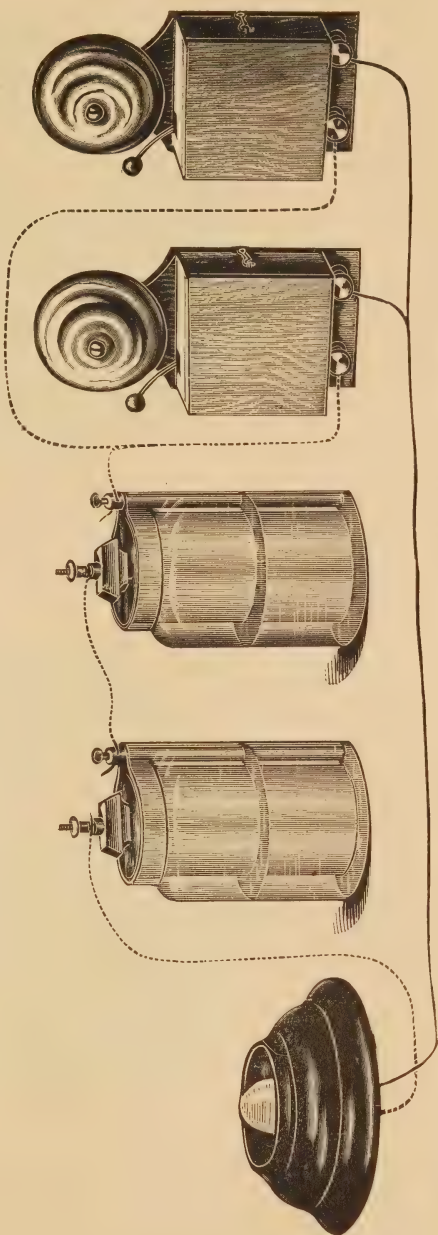


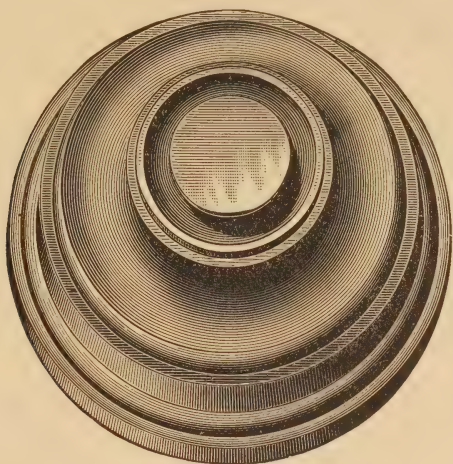
Diagram showing circuit for ringing two Bells from one Push Button.

PUSH BUTTONS AND PULLS.

(Send for Illustrated Catalogue showing over sixty designs.)

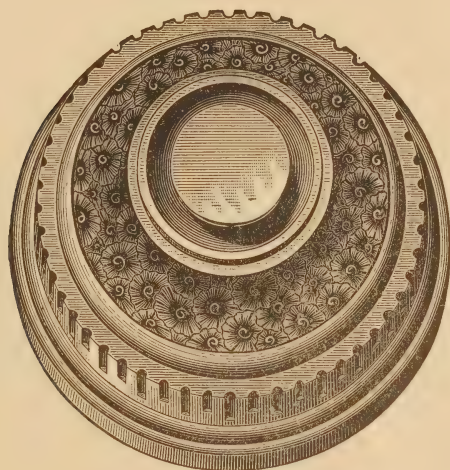
OUR very large variety of designs in Push Buttons and Pulls enables us to meet almost every demand that can be made upon us in that line. The prices quoted are based upon beauty of finish and superior workmanship in their construction. The finish is designated as follows:

- No. 1. Light Bronze.
- “ 2. Dark Bronze.
- “ 2½. Chocolate Ground. Light polished surface.
- “ 3. Black Ground. Light polished surface.
- “ 4. Nickel Plated.
- “ 7. Old Copper.
- “ 8. Oxidized Silver.
- “ 9. Dull Brass.
- “ 10. Polished Brass.
- “ 11. Polished Bronze.



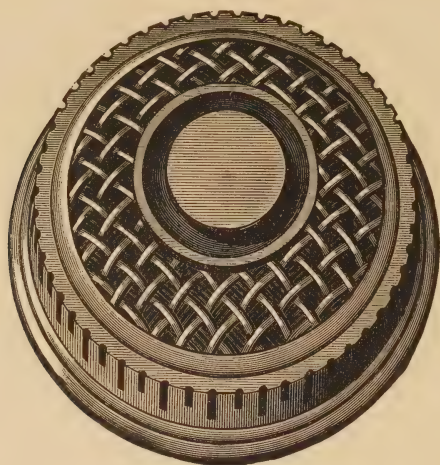
No. 160 1-2. Bronze.

Finish Nos. 2, 7, 10 and 11.....	each, \$1 35
“ No. 4.....	“ 1 60
“ No. 8.....	“ 2 10



No. 1260 1-2. Bronze.

Finish Nos. 2, 2½, 7 and 11.....	each, \$1 35
“ No. 4.....	“ 1 60
“ No. 8.....	“ 2 10



No. 1360 1-2. Bronze.

Finish Nos. 2, 2½, 3, 7 and 11.....	each, \$1 35
“ No. 4.....	“ 1 60
“ No. 8.....	“ 2 10



No. 1760 1-2. Bronze.

Finish Nos. 2, 2½, 3, 7 and 11.....	each, \$1 35
“ No. 4.....	“ 1 60
“ No. 8.....	“ 2 10



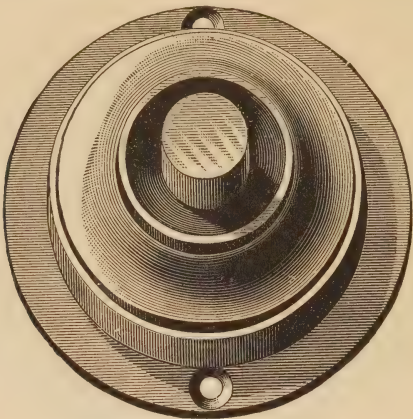
No. 1001. Bronze.

Finish Nos. 1, 2, 3\$0 75



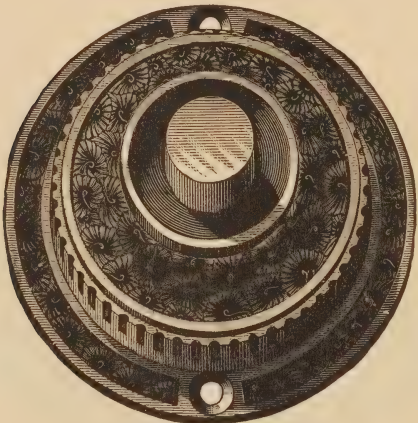
No. 1002. Bronze.

Finish Nos. 1, 2, 3\$0 75



No. 162 1-2. Bronze.

Finish Nos. 2, 2½, 3, 7 and 11.....	each, \$1 10
“ No. 4.....	“ 1 40
“ No. 8.....	“ 1 80



No. 1262 1-2. Bronze.

Finish Nos. 2, 2½, 3, 7 and 11.....	each, \$1 10
“ No. 4.....	“ 1 40
“ No. 8.....	“ 1 80



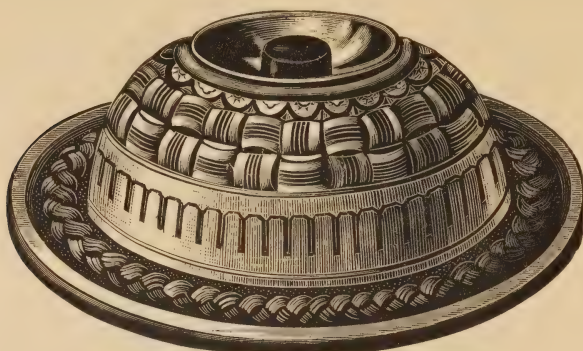
NO. 530. Bronze. Solid Cap, \$0 40.

Finish Nos. 1, 3	\$0 40
No. 530×4, Bronzed Iron	0 30



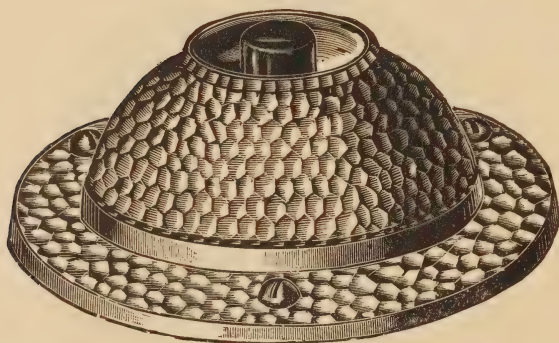
No. 1013. Bronze.

Finish Nos. 1, 2, 3	\$0 75
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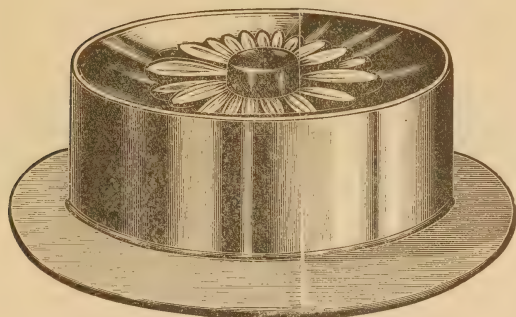
No. 526. Basket Pattern Bronze, \$1 50.

No. 526×3, Black Inlaid	\$1 50
“ 526×4, Brown Inlaid	1 50
“ 526×5, Sage Green Inlaid	1 50
“ 526×6, Terra Cotta Inlaid	1 50



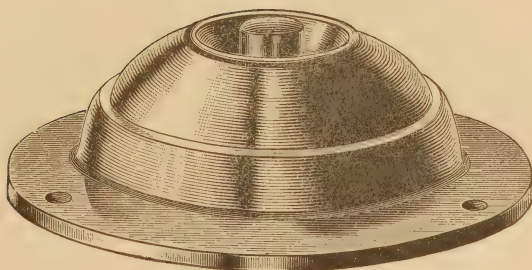
No. 527. Hammered Brass, \$1 00.

No. 527×2, Real Bronze	\$1 00
“ 527×3, Yellow Brass	1 00
“ 527×4, Dark Bronze	1 00
“ 527×5, Oxidized Silver	1 40



No. 528. Ornamental Pattern Bronze, \$0 75.

No. 528×2. Nickel Plated.....\$0 75



No. 1011. Bronze. Solid Cap, \$0 75.



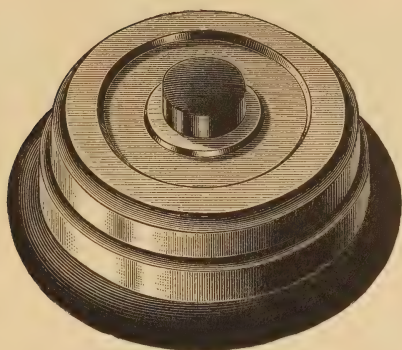
No. 522. Bronze, \$0 75.

No. 522×3.	Black Inlaid.....	\$0 75
“ 522×4.	Brown Inlaid.....	0 75

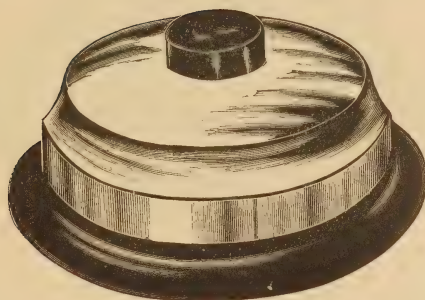


No. 529. Ornamental Pattern Bronze, \$0 75.

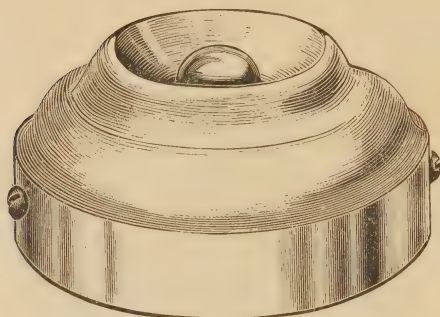
No. 529×2.	Black Inlaid.....	\$0 75
“ 529×3.	Brown Inlaid.....	0 75
“ 529×4.	Partly Black Inlaid.....	0 75



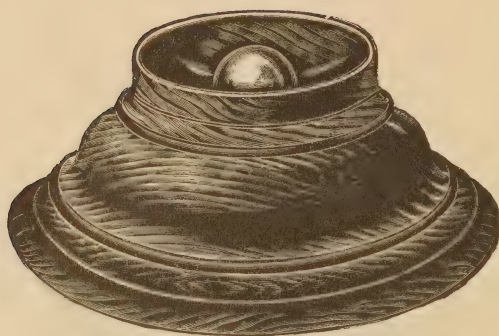
No. 531 1-2. Nickel Plated, \$0 75.



No. 531. Nickel Plated, \$0 75.

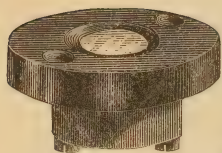


No. 525. Alabaster. \$0 30.



NO. 524. Wood.

Walnut, Oak, Ash, Cherry	\$0 15
Mahogany, Rosewood	0 18

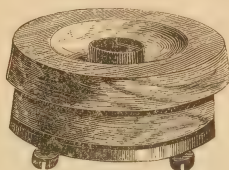


No. 532. Midget.

Rubber.....\$0 50



No. 534. Pear Shaped, \$1 00.



No. 533. Midget.

Wood.....\$0 50



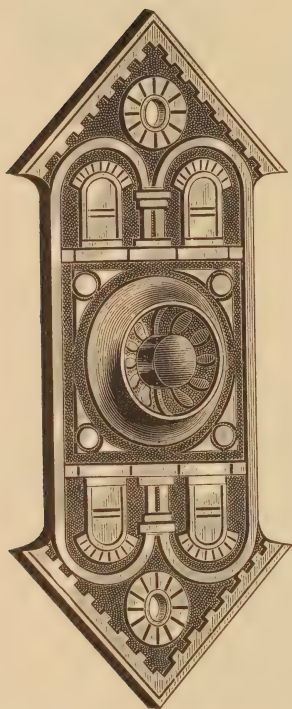
No. 535.

Movable Floor Push, with Spring Jack Attachment, 3-foot cord.....\$2 25



No. 536.

Movable Floor Push, with Plug Attachment, 3-foot cord.....\$1 75



No. 1003. Bronze.

Finish Nos. 1, 2, 3.....\$0 75



No. 537 1-2. Bronze, \$0 75.

No. 537 $\frac{1}{2}$ × 2. Black Inlaid..\$0 75



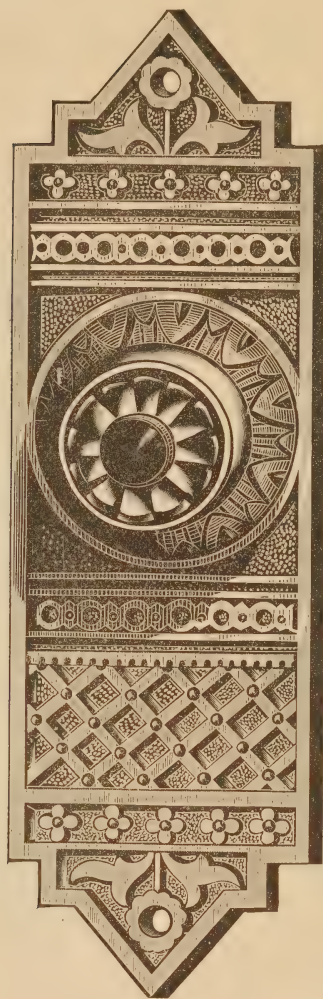
No. 1004. Bronze.

Finish Nos. 1, 2, 3.....\$0 75



No. 1012. Bronze.

Solid Cap.....\$0 75



No. 537. Bronze, \$0 75.

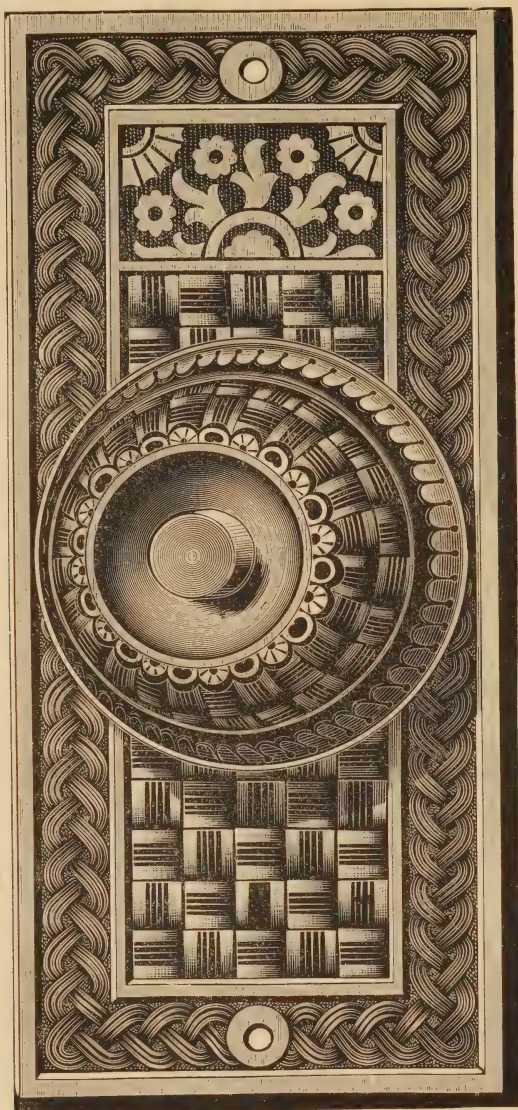
No. 537×2. Black Inlaid.....\$0 75

“ 537×3. Brown Inlaid.... 0 75



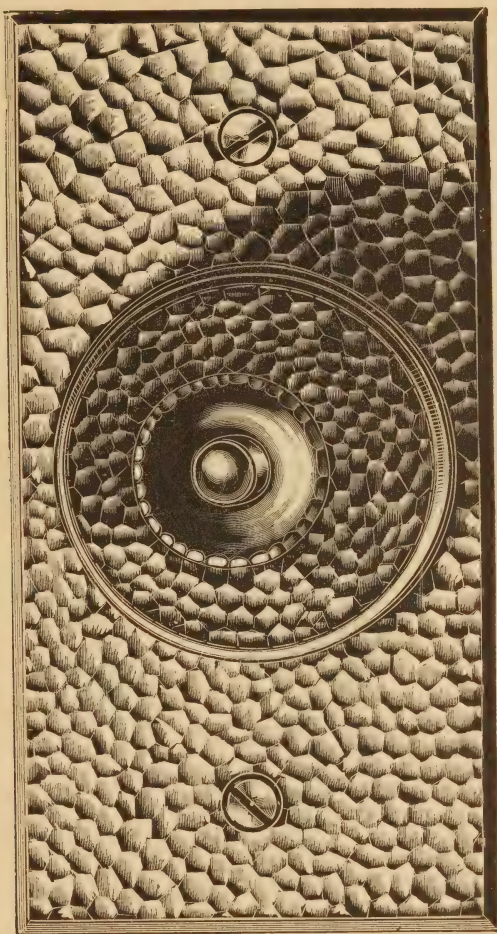
No. 542. Bronze, \$1 25.

No. 542×2.	Black Inlaid	\$1 25
" 542×3.	Brown Inlaid	1 25
" 542×4.	Partly Black Inlaid	1 25



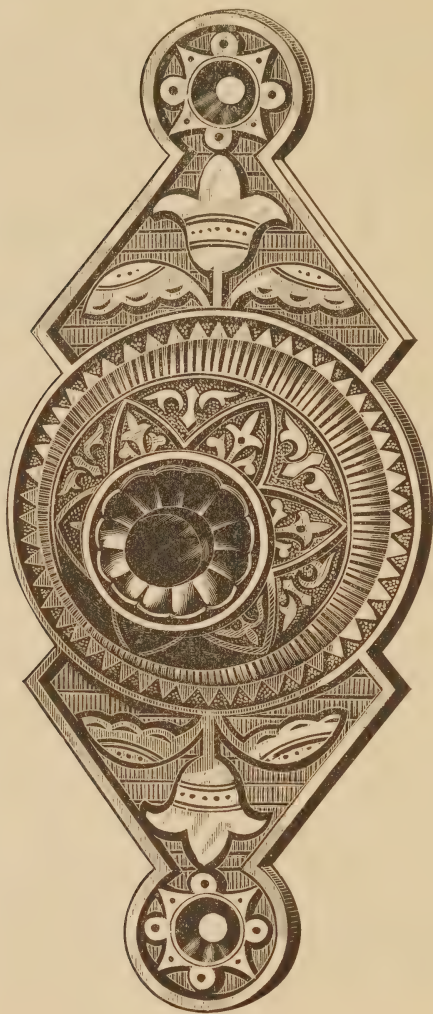
No. 545. Bronze, \$2 00.

No. 545×2.	Black Inlaid.....	\$2 00
“ 545×3.	Brown Inlaid.....	2 00
“ 545×4.	Sage Green Inlaid.....	2 00
“ 545×5.	Terra Cotta Inlaid.....	2 00



NO. 540. Bronze, \$1 50.

No. 540×2.	Yellow Brass.....	\$1 50
" 540×3.	Dark Bronze.....	1 50



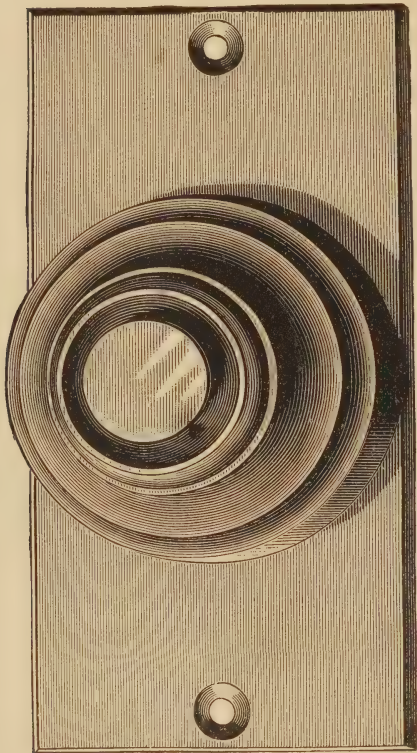
No. 544. Bronze, \$0 75.

No. 544×3.	Black Inlaid	\$0 75
" 544×4.	Black Inlaid	0 75



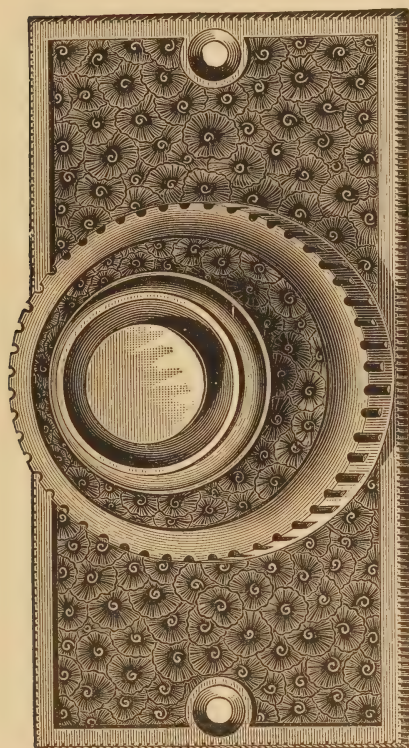
No. 1015. Gold-Bronze Push.

Price.....\$1 80



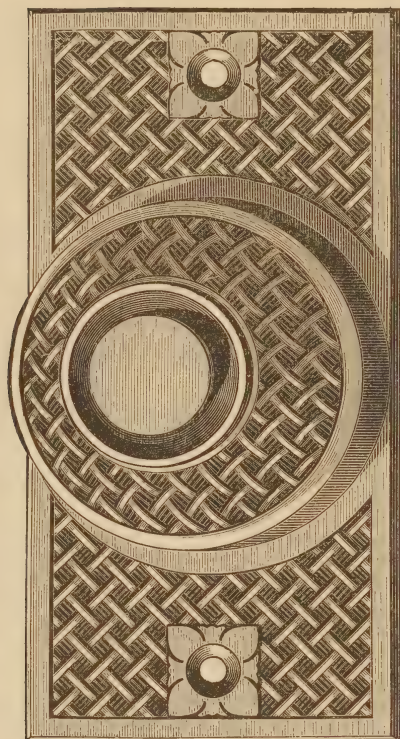
No. 164 1-2. Bronze.

Finish Nos. 2, 2½, 3, 7 and 11.....	\$1 60
“ No. 4.....	1 85
“ No. 8.....	2 35



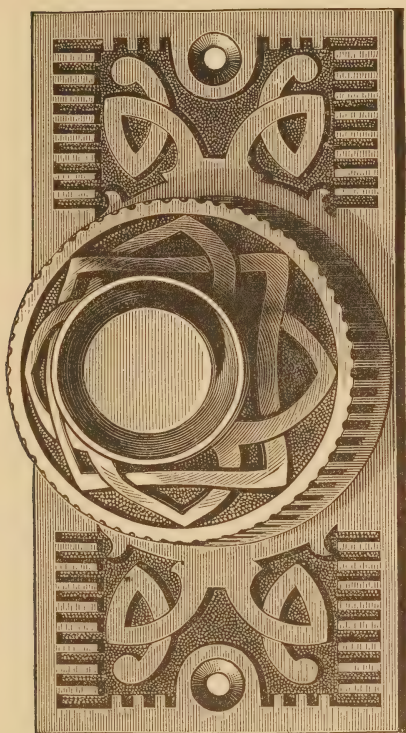
No. 1264 1-4. Bronze.

Finish	Nos. 2, 2½, 3, 7 and 11	\$1 60
"	No. 4	1 85
"	No. 8	2 35



No. 1364 1-2. Bronze.

Finish Nos. 2, 2½, 3, 7 and 11.....	\$1 60
“ No. 4.....	1 85
“ No. 8.....	2 35



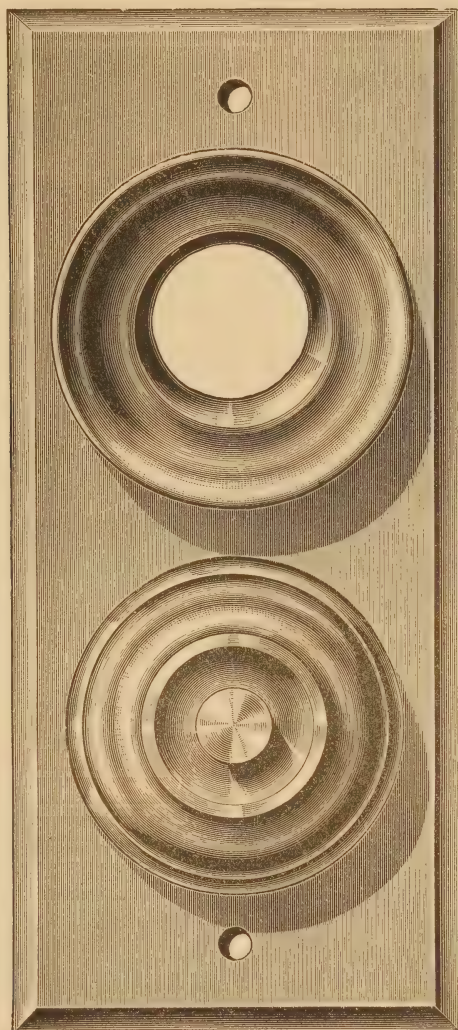
No. 1764 1-2. Bronze.

Finish Nos. 2, 2½, 3, 7 and 11.....	\$1 60
“ No. 4.....	1 85
“ No. 8.....	2 35



No. 538. Bronze, \$1 60.

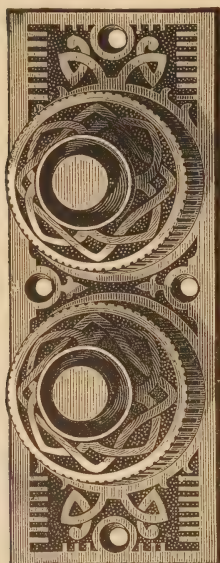
No. 538×2. Black Inlaid.....	\$1 50
No. 538×3. Brown Inlaid.....	1 50



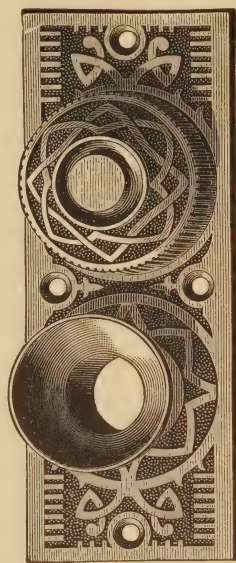
No. 1016.

Gold-Bronze Combination Push and Mouthpiece.

Price..... \$2 25

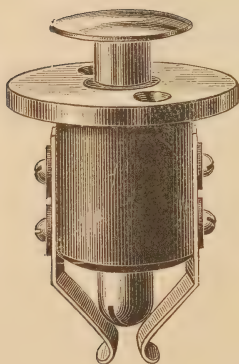


No. 1766 1-2.



No. 1767 1-2.

Finish Nos. 2, 2½, 3, 7 and 11.....	each, \$3 10
“ No. 4.....	“ 3 70
“ No. 8.....	“ 4 70



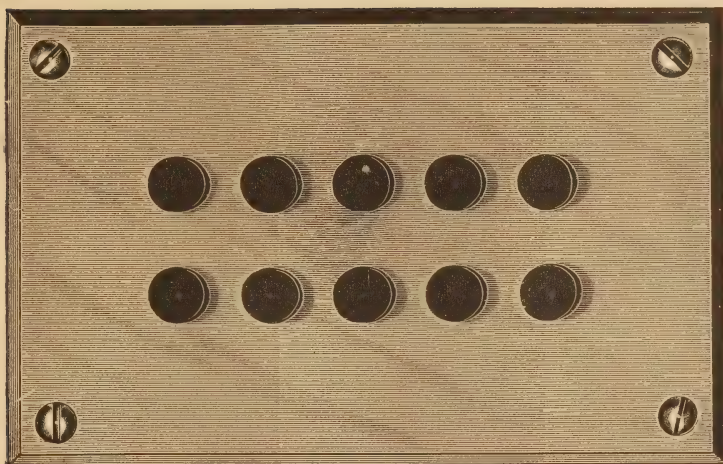
No. 560.

Floor Key, \$0 75.



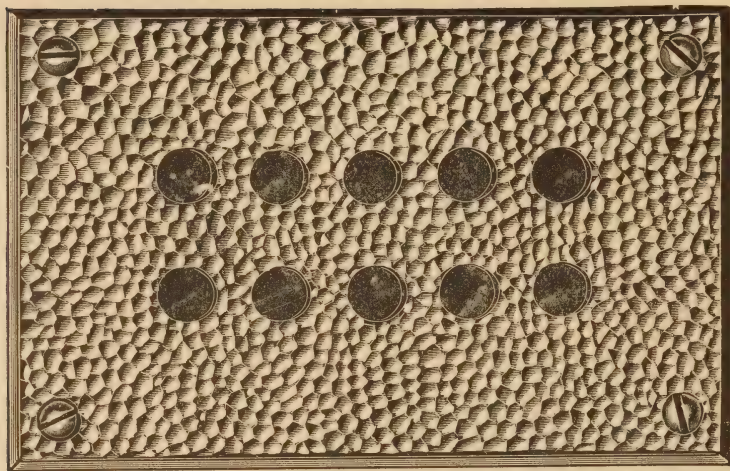
No. 562. Compound Push Button.

2-Button.....	\$ 3 00
4-Button.....	6 00
6-Button.....	9 00
8-Button.....	11 50
10-Button.....	14 00
12-Button.....	16 00



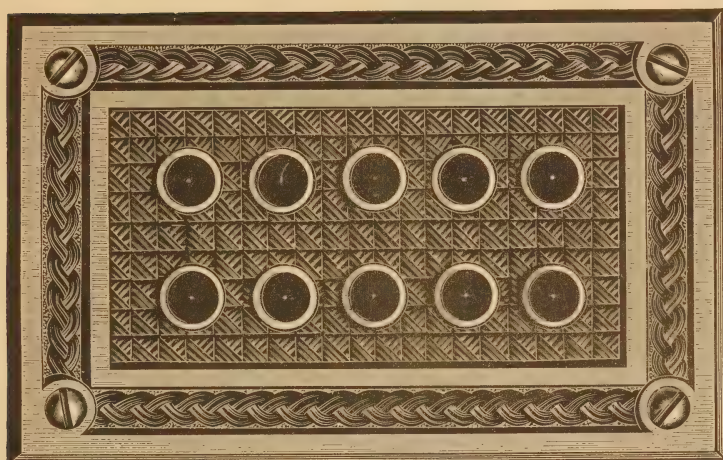
No. 544. Compound Push Button. Plain brass.

2-Button.....	\$ 2 25
4-Button.....	3 75
6-Button.....	5 50
8-Button.....	7 25
10-Button.....	8 50



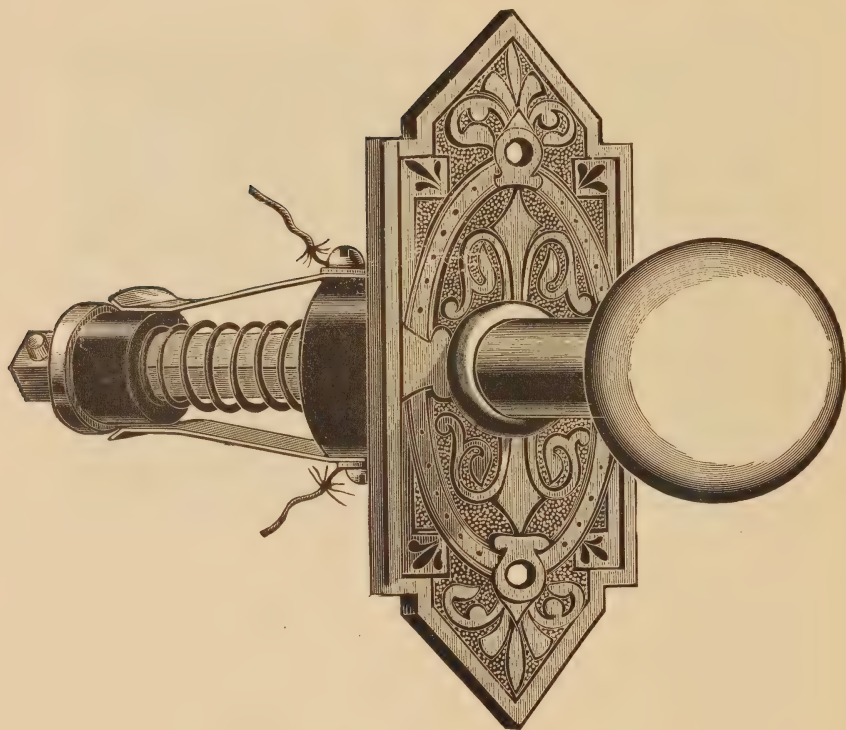
No. 562 1-2. Compound Push Button. Hammered brass.

2-Button.....	\$ 3 00
4-Button.....	4 50
6-Button.....	6 25
8-Button.....	8 00
10-Button.....	10 00



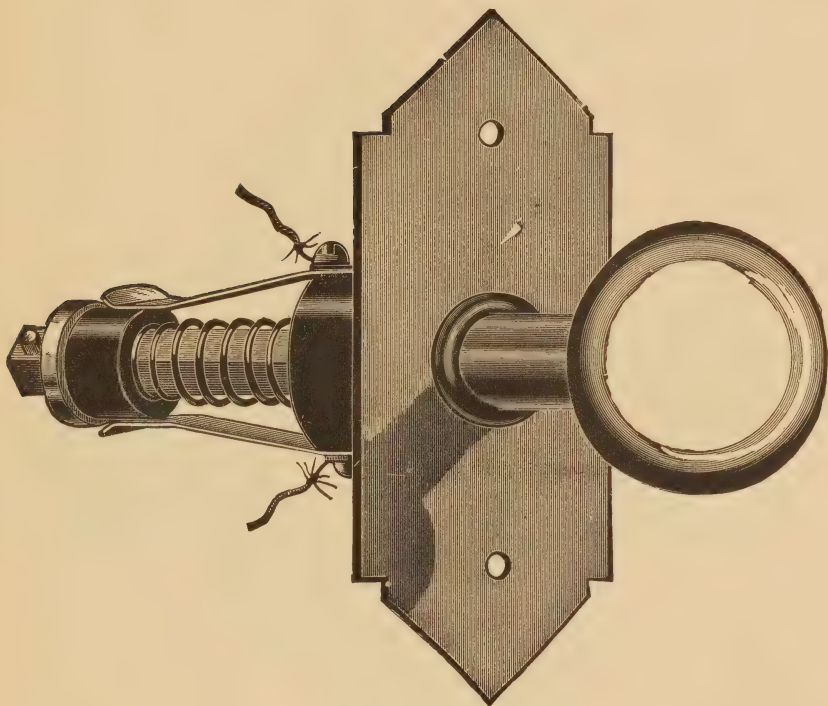
No. 546. Basket Pattern Compound Push Button. Bronze.

2-Button.....	\$ 3 00
4-Button.....	4 50
6-Button.....	6 25
8-Button.....	8 00
10-Button.....	10 00



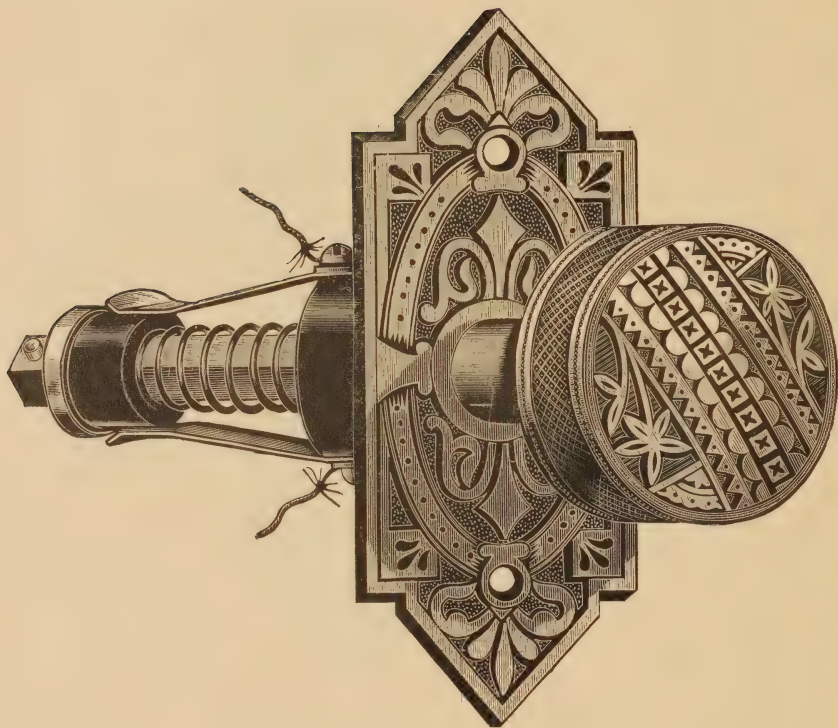
No. 549. Bronze. Price, \$1 50.

Knob, Porcelain or Black Jet.

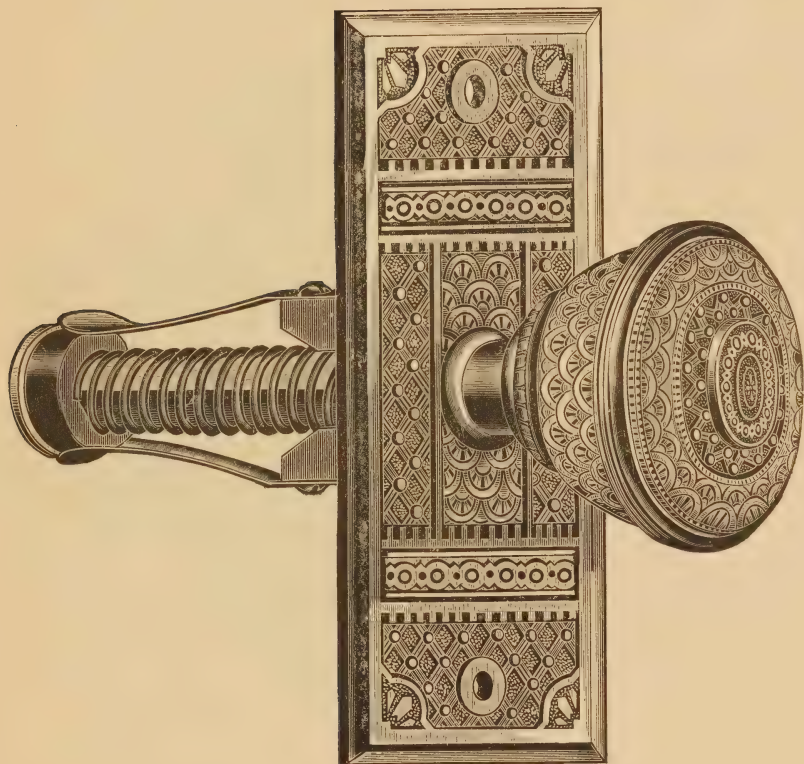


No. 551. Nickel-plated. Price, \$1 50.

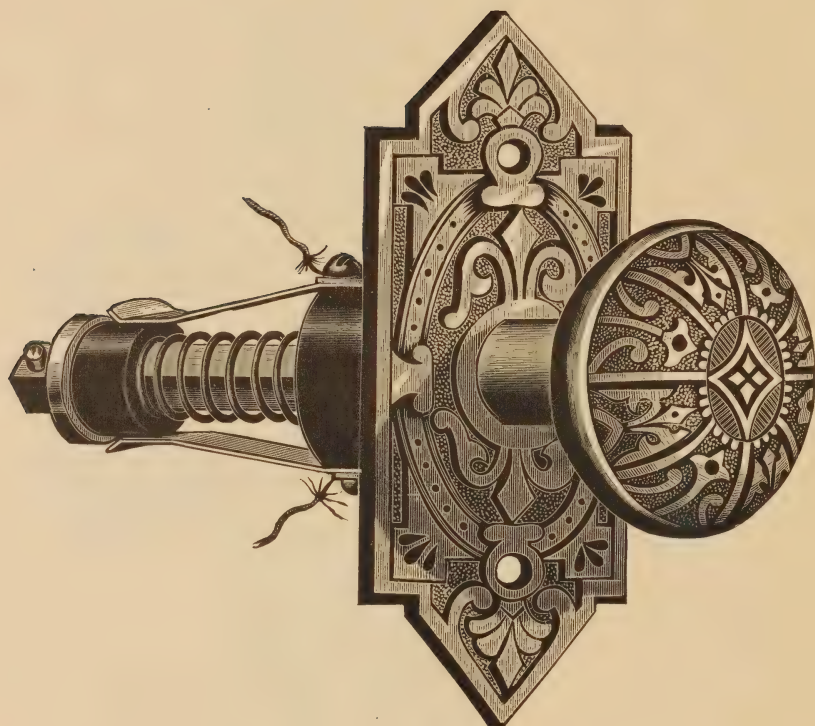
Knob, Porcelain or Black Jet.



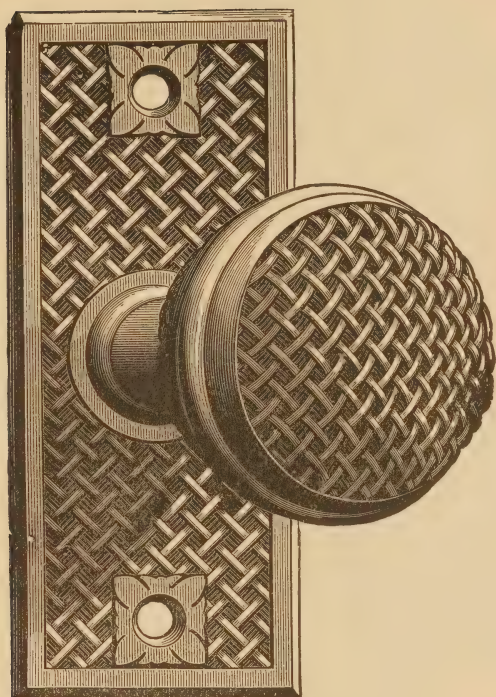
No. 550. Bronze, \$1 75.



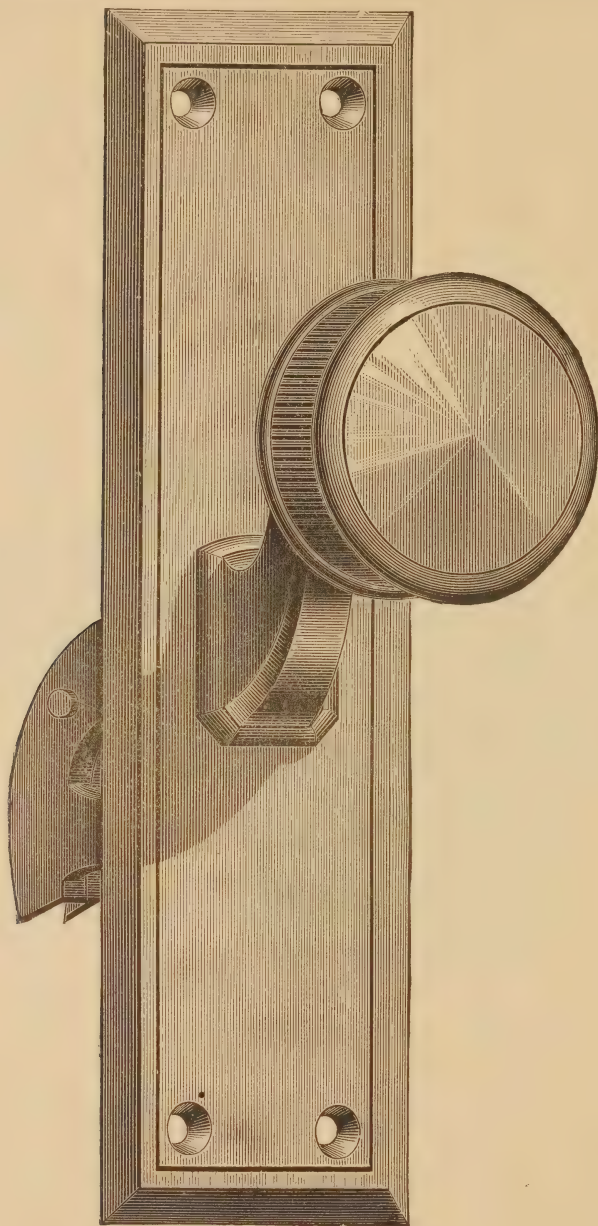
No. 552. Pull, \$2 50. Finish Nos. 1, 2 and 3.



No. 553. Full, \$1 50. Finish Nos. 1, 2 and 3.

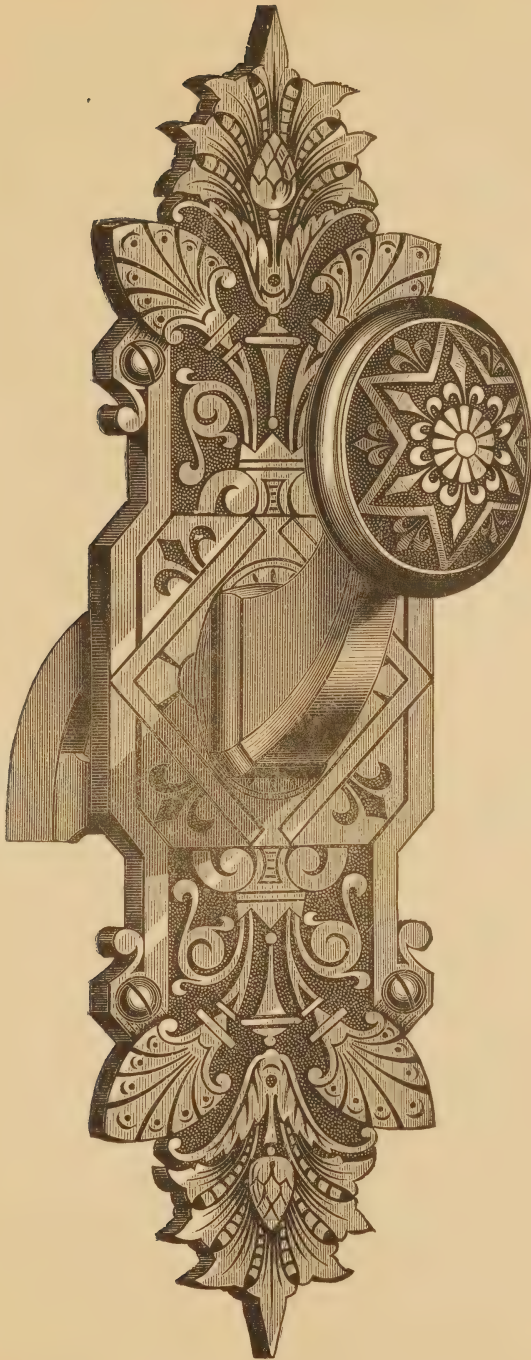


No. 1916. Bronze. Pull, \$2 50.



No. 191. Pull.

Plain Bronze or Brass.....\$4 50 | Oxidized Silver.....\$7 00



No. 141. Pull, \$3 75. Finish Nos. 1, 2 and 3.

COMBINATION LETTER BOXES.

See Illustrations, pages 65 and 66.

No. 1. Gold-bronze letter box, with Yale standard lock, speaking-tube mouthpiece, and electric push button.

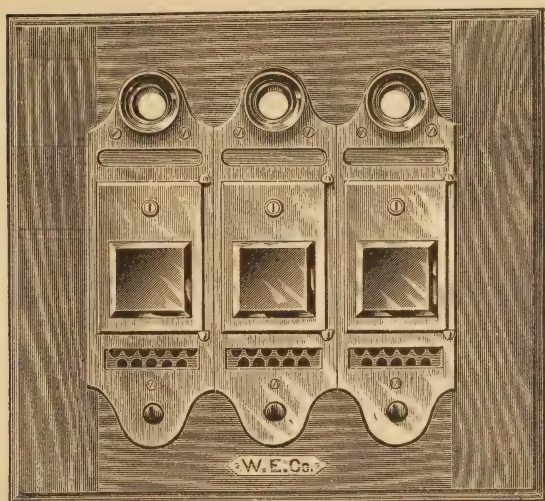
No. 2. Similar to No. 1, but larger and has a raised push button.

No. 3. Same as No. 2, but without speaking-tube mouthpiece.

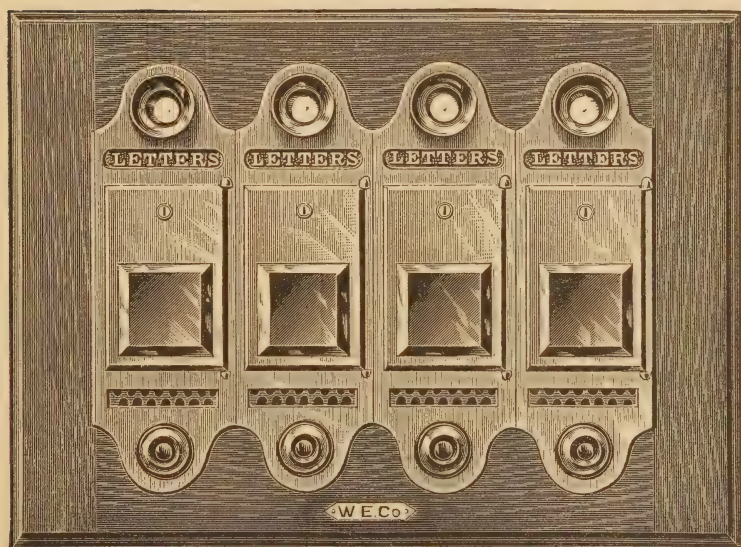
No. 4. Same as No. 2, except there is no push button nor mouthpiece; for letters and name only.

Prices, mounted in sets of three and upward		Unmounted:
No. 1, per box.....	\$4 50	\$4 25
No. 2, "	5 00	4 75
No. 3, "	4 00	3 75
No. 4, "	3 50	3 25

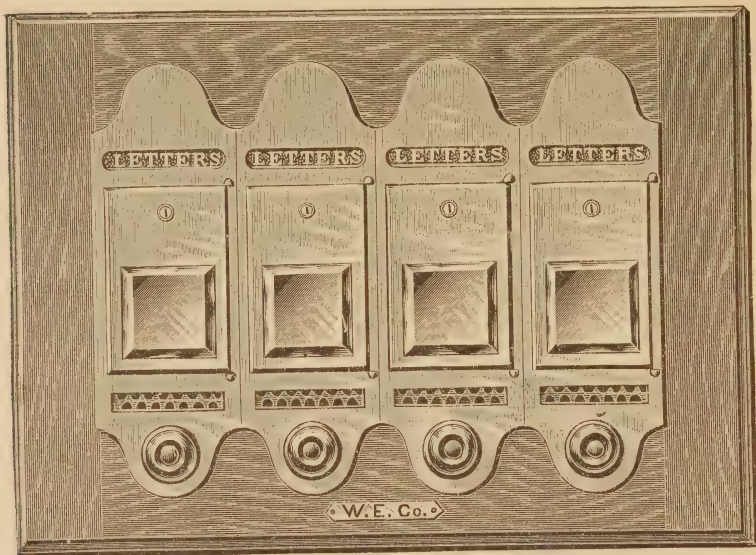
COMBINATION LETTER BOXES.



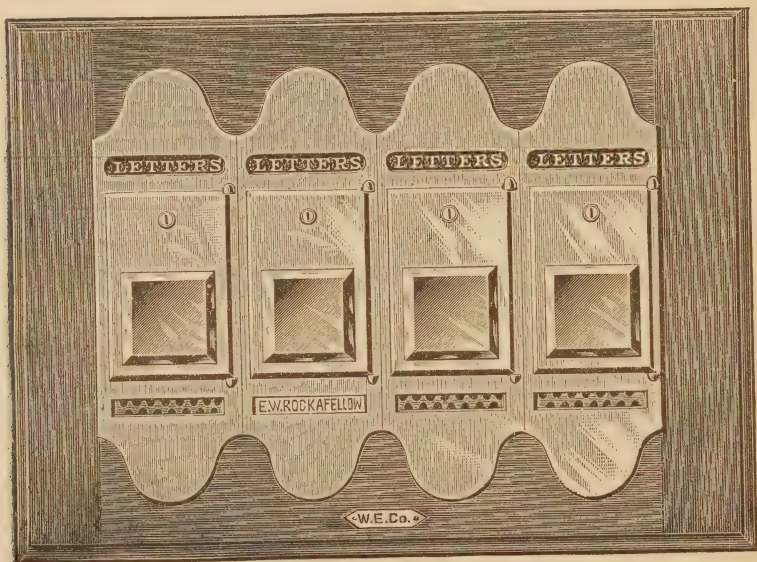
No. 1. Letter Box.



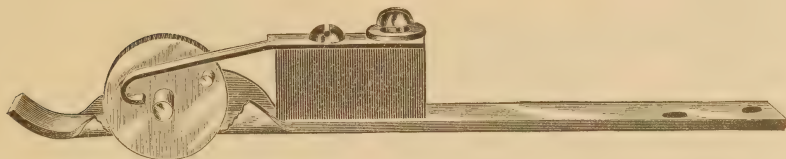
No. 2. Letter Box.



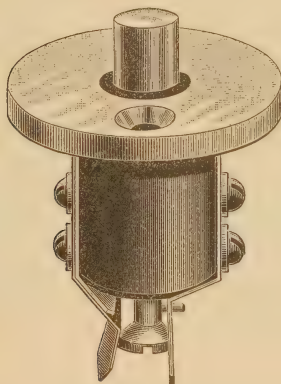
No. 3. Letter Box.



No. 4. Letter Box.



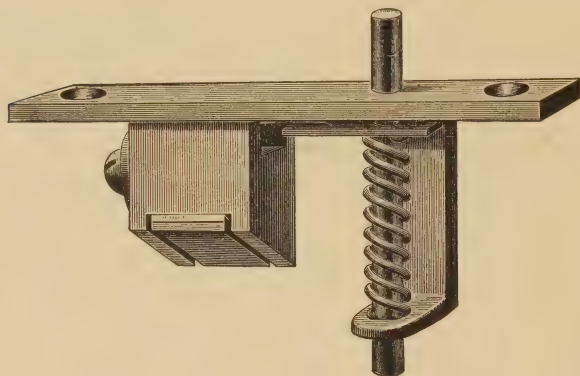
No. 558 1-2 A. Window Connection, Ventilating, \$0 40.



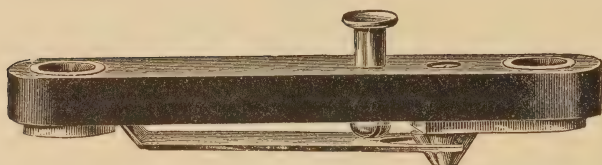
No. 558 1-2. Door Connection, \$0 75.



No. 558. Window Connection, Ventilating, \$0 40.



No. 557 1-2. Door Connection, \$0 40.



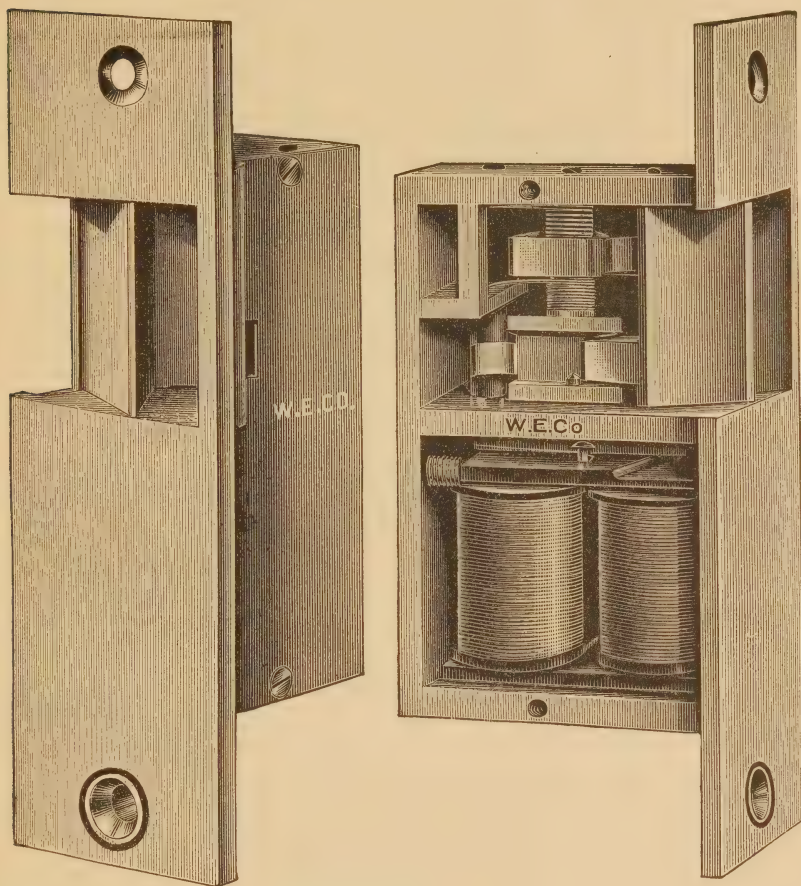
No. 557 A. Door Connection, \$0 30.



No. 557. Window Connection. Per dozen, \$2 20.

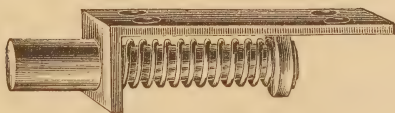


No. 556 A. Window Connection, \$0 30.

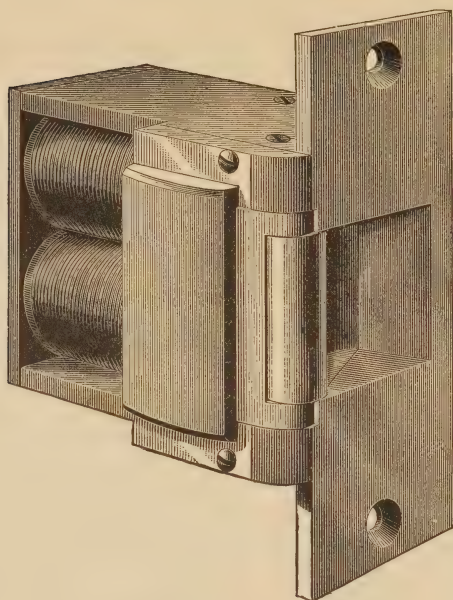


Western Electric Door-Opener.

Price.....\$8 00

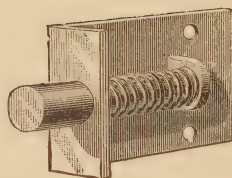


Door-Opener Spring.



Edwards Door-Opener.

Price.....\$9 00



Door-Opener Spring.

ELECTRIC GAS-LIGHTING APPARATUS.

FOR PUBLIC BUILDINGS, HALLS, THEATRES,
CHURCHES, ETC.

THE Central Apparatus manufactured by us consists of an induction coil with key and circuit breaker, a double bi-chromate battery and a circuit switch, all conveniently placed in a finely finished black walnut case.

The induction coil we make to meet the requirements of each order, and it is so constructed that there is no likelihood of annoyance from the jumping of the spark.

Instead of the automatic circuit breaker we use a hand key. In this way the time for applying the spark is completely under the control of the attendant.

The battery is durable, inexpensive to maintain, and requires but little attention.

The elements are mounted on hard rubber disks, and can be raised and lowered as desired.

The switch is mounted on hard rubber base, securing the high insulation which is necessary to keep the electric spark within bounds.

The burner consists of a lava standard and tip, with platinum-pointed electrodes placed over the tip.

The electrodes of the different burners of a group are connected in series to the switch and the Central Apparatus, so that the spark passes across all the burners of a group.

Prices on Application.

ELECTRIC GAS LIGHTING APPARATUS.

FOR

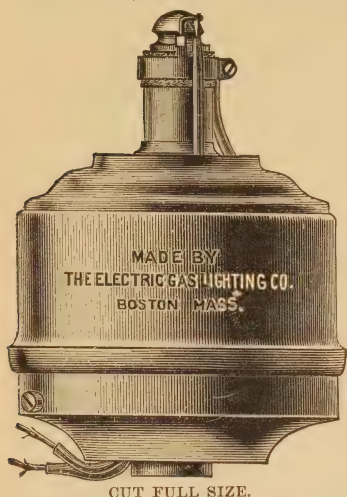
RESIDENCES.

THE ELECTRIC GAS LIGHTING COMPANY was accorded the highest award (a Diploma of Honor) at the AMERICAN EXHIBITION, LONDON, 1887, over all competitors, for its exhibit of Electric Gas Lighting Appliances.

The apparatus illustrated and sold by us is that manufactured by the ELECTRIC GAS LIGHTING COMPANY of Boston.

We carry burners Nos. 1, 3, 4, 5, 7, 13, 16, 18 and 24 in stock, but can have any other shipped direct from the factory on short notice.

AUTOMATIC ELECTRIC GAS BURNERS.



CUT FULL SIZE.

No. 4. Single Magnet Ratchet Automatic, Polished Brass, price.....\$5 75
Same, Nickel Plated, 10 cents extra, net.

The "SINGLE MAGNET" RATCHET AUTOMATIC No. 4 herewith illustrated, combines a single electro-magnet and an armature, a circuit-breaker, ratchet-wheel, pawl and commutator—an absolutely safe and sure method of turning gas on and off by electricity. Thousands of these No. 4 Automatics are in use, and giving the utmost satisfaction. They are indeed every way reliable for houses, banks, stores and offices.

Patented Nov. 28, 1876; July 16, 1878; Oct. 21, 1879; July 11, 1882, and Dec. 20, 1887.

NOTE.—When desired, we fit the No. 4 Automatics with switching devices, so that they may be lighted in multiple. Price 75 cents extra, net. Binding posts are attached gratis when requested.

OUR IMPROVED RATCHET AUTOMATIC.

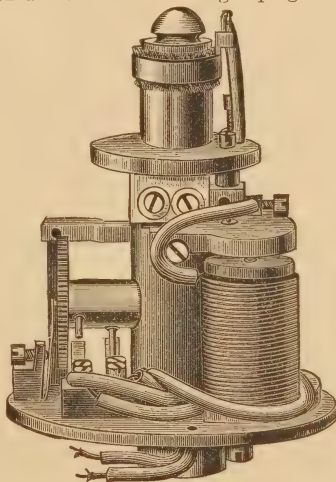
(See inside view herewith.)

The S. M. Ratchet Automatic No. 4, has recently been materially improved by dispensing with the soft iron base, the contact cam, the rubber bridge, one German silver and two steel springs. In place of the cam, the burner now has two platinum pointed brass pins, which are driven into the gas plug extension. A brass base is substituted for the soft iron one, and a small rubber insulating block furnishes a foundation for the connection screws. Two flat springs of German silver attached to this block make connection with the brass pins in the gas plug extension, as the ratchet-wheel revolves.

The current passes through but one coil of the magnet at a time, but energizes both poles. The two coils are energized alternately for lighting and extinguishing the gas.

The simplicity of the improved burner is greatly in its favor, and the positive reliability of the contacts is an important advantage. The peculiar winding renders a comparatively weak current effective in its operation. Patents for these improvements pending.

This burner will be known as "The Improved Ratchet Automatic No. 4 1-2," and both the old and new styles will be kept in stock and sold at the same price.



THE IMPROVED RATCHET AUTOMATIC
No. 4½, illustrating its Mechanism.

THE SINGLE WIRE "TRIUMPH" AUTOMATIC No. 12.



THE "TRIUMPH" AUTOMATIC

No. 12. Cut full size.

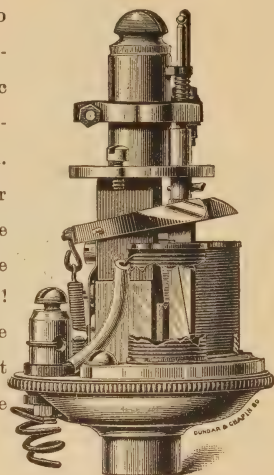
Patented May 1, 1888.

Patents for improvements pending

We are proud to present the "Triumph" Automatic improved and thoroughly perfected. There are now over 3500 in use, before having been on the market two years! It is not only the lowest priced but the most desirable automatic made.

ITS FEATURES:—

Only one wire is used from battery



The "Triumph" uncovered showing working parts.

to button and button to burner. A single push-button both lights and extinguishes the burner. Two of the Triumph Automatics can be placed on a fixture wired for one ordinary automatic, and wires for "pendant" burners can be utilized by simply connecting in a push-button between battery and burner.

It lights instantaneously, and vibrates while the finger remains on the button; a second pressure of same button extinguishes the gas without vibration. Its operation is positive, the electric impulse being sure to leave the gas-way wide open or entirely closed.

It is simple in construction, does not easily get out of order, requires only minimum battery power, is a third smaller than automatic burners in general use, and unites the highest degree of simplicity, safety, and efficiency.

What does it signify? Well, less cost and better results to the contractor. Besides the saving in wire and push-buttons or keys the trade price of the burner is much less than for old-style automatics.

No. 12 Triumph Automatic, Polished Brass, price..... \$5 00

Same. Nickel Plated, 10 cents extra, net.

AUTOMATIC ELECTRIC GAS BURNERS.

THE ARGAND AUTOMATIC No. 8.

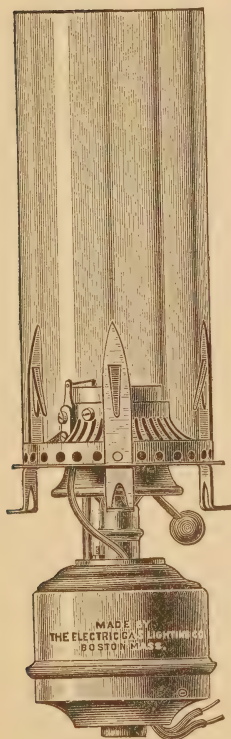
A large number of this new and improved burner has been sold, and they are giving good satisfaction everywhere. They are made to be used with either gasoline or coal gas.

No. 8 ARGAND AUTOMATIC GAS BURNER.

CUT $\frac{1}{2}$ SIZE.

Polished Brass (No. 4 Automatic), price.....\$7 50

Same, Nickel Plated, 10 cents extra, net.



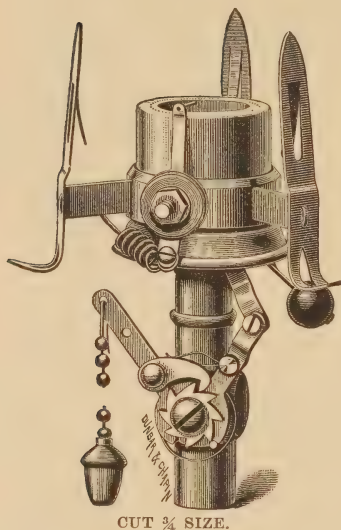
ADVICE ABOUT AUTOMATICS.

This Automatic is adjusted to work on five or six cells of Leclanche or Improved "Law Prism" Batteries. Every burner is carefully tested by practical use, and put in perfect working order before it leaves our salesrooms.

If an Automatic fails to operate satisfactorily, the trouble is very likely to be found in the wiring, battery connections or engineering of the job. It is oftener the result of rough handling or indiscriminate turning of the adjusting screws; twisting of electrodes, thumping of armature, etc. If, however, the burner has from any cause become inoperative, and you are unable readily to locate and remove the difficulty, it is generally better to return it to us than to attempt to adjust or repair it. Advise your customers not to *handle* or *tinker* the burners.

ELECTRIC HAND-LIGHTING GAS BURNERS.

THE SIMPLE ARGAND BURNER No. 16.



The latest style Argand Shade-holder and Regulator is here used. The burner is provided with a perfectly insulated electrode, firmly riveted to the Argand tip, having an ear and binding screw for securing a suitable connection with the conducting wire. The vibrating arm is a jointed lever, giving both a perpendicular and horizontal movement to its elastic contact point, which engages with the fixed electrode in the air passage of burner tip.

No. 16. Simple Argand Burner, Polished Brass, price\$2 65
Same, Nickel Plated, 6 cents extra, net.

IMPROVED RATCHET ARGAND BURNER No. 18.

Vibrating arm and manner of insulating No. 18 are the same as No. 16; but the same mechanism is employed to rotate the gas cock as in Boston Ratchet Burner No. 3. It is the most perfect and desirable Ratchet Argand Burner made.

Patented Jan. 11, Sept. 14 and 28, 1880; April 7, 1885.

No. 18. Ratchet Argand Burner, Polished Brass, price\$3 25
Same, Nickel Plated, 6 cents extra, net.

ELECTRIC HAND-LIGHTING GAS BURNERS.

THE SIMPLE AND RATCHET CANDLE BURNERS,

Nos. 20 and 22, have plain porcelain slips in imitation of sperm candles. The electrical mechanism for lighting is simple and effective, a positive rubbing contact having been secured within the limited space afforded.

The burners are much used in first-class residences. Dealers should have samples, at least, for exhibition.

Patented Jan. 11, Sept. 14 and 28, 1880;—Improved Jan. 12 and July 1, 1887.

No. 20. Simple Candle Burner, Buffed and Lacquered,
with porcelain slips, price.....\$2 50

Nickel Plated, 6 cents extra, net.

No. 22. Ratchet Candle Burner, Buffed and Lacquered,
with porcelain slips, price.....\$3 25

Nickel Plated, 6 cents extra, net.

Gold Plating or Special Coloring, extra.

The Candle Burners above listed are of our own special patterns, and are very handsome, being all complete and ready to secure to the gas-fixtures.

Candle Burner Sockets and stems, taken from chandeliers, are fitted with Electrical connections for Simple Lighters, price, net.....\$ 1 50

For Ratchet Burners, price, net..... 2 00

For Automatic Candle Burners, made to order, price 10 00

We do not furnish fancy slips with our candle burners, and all such material sent us to be fitted is at the owner's risk of breakage.

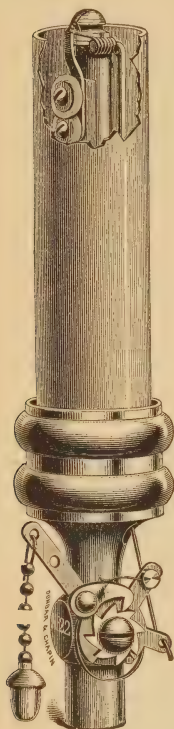
No twisted or plain slip with less than $\frac{3}{4}$ -in. inside diameter can be successfully fitted.

Where these fittings require extra work, we charge for stock and time.

Outfit for One Automatic and Three Ratchet Burners.

Four "Disque" Leclanche Batteries, @ \$1 00.....	\$ 4 00
One 8-inch spark-coil.....	2 80
Two lbs. No. 18 Annunciator Wire, $\frac{1}{8}$ lb. No. 24 Fixture Wire.....	0 82
One No. 4 S. M. Ratchet Automatic.....	6 00
Two 2-Button Keys, Style D, @ 72c.....	1 44
Three Ratchet Burners (No. 3 or 7), @ \$1 25.....	3 75
Three 6-inch Bead Chain Pulls, complete.....	0 33

Total.....\$19 14



Cut Half Size.

ELECTRIC HAND-LIGHTING GAS BURNERS.

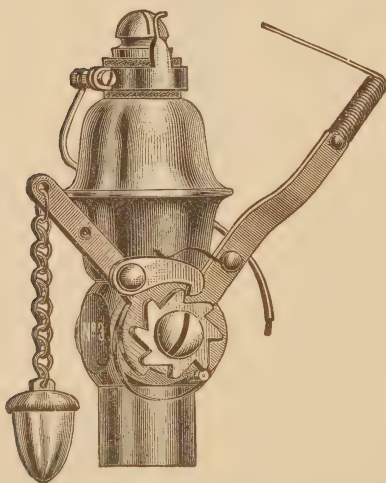
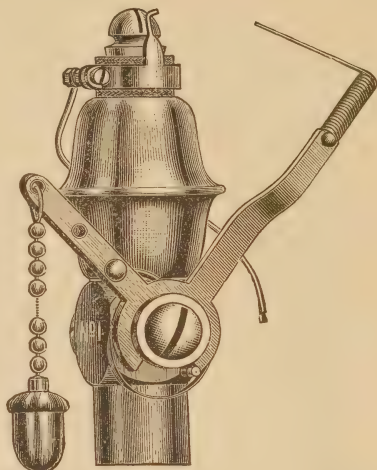
The Simple Hand Lighter,
No. 1, contains no stop-cock, but by the pull of a pending chain the gas is lighted after it is turned on by the key in the gas-fixture in the ordinary way. It is more especially designed for servants' rooms, stores, factories, etc., where a low priced burner is required.

Patented Aug. 8, 1876; Sept. 14 and 28, 1880.

NOTE.—The prices of our Hand-lighting Burners herewith given do not include pending or pull-chains.

No. 1. Simple Hand-lighter, Polished Brass, price.....\$0 70

Same, Nickel Plated, 3 cents extra, net.



No. 3 in Operation.

The Boston Ratchet Burner.

The first pull of the chain turns on the gas through a four way gas-cock governed by a ratchet wheel and pawl. The issuing gas is lighted by a wick-spark at the tip of the burner. Alternate pulls shut off the gas.

Patented Aug. 8, 1876; Jan. 11, Sept. 14 and 28, 1880.

No. 3. Boston Ratchet Burner, Polished Brass, price.....\$1 25

Same, Nickel Plated, 3 cents extra, net.

NOTE.—The straight marks stamped on the collars of our burners indicate the size of the lava tips used—whether three, four or five-foot. Please to indicate your choice, if any; otherwise, three or four ring-tips will be sent you.

ELECTRIC HAND-LIGHTING GAS BURNERS.

The Improved Simple Hand-lighter

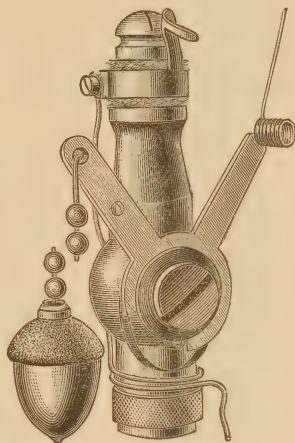
Is a compact and easy working burner, decidedly the best simple lighter made. Those who prefer to turn the gas-key in the usual way, and light the gas by pulling the pendant chain, will admire this elegant burner.

Patented August 8, 1876; September 14 and 28, 1880;
and April 7, 1885.

No. 5. Improved Simple Hand-lighter.

Polished Brass, price.....\$0 70

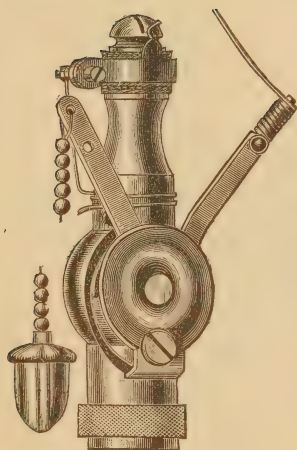
Same, Nickel Plated, 3 cents extra, net.

**The Tip-Top Ratchet Burner,**

No. 7, differs materially in construction from No. 3, but is operated in the same manner by means of a pending chain. In it are embodied several improvements of value, and it is a remarkably fine worker, which gives the most general satisfaction of any ratchet burner made. One great advantage is that it always lights under the first pull.

It has recently been improved by dividing the pillar to enable the user to get at and regulate the flame check; and the retractile spring has been so arranged, in connection with the ratchet, as to prevent the possibility of the wheel returning with the movable arm after the gas is lighted.

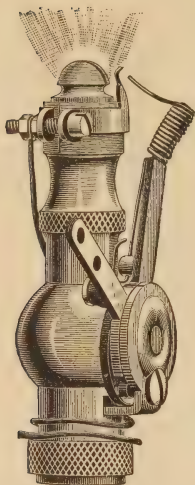
Patented June 10, 1873; August 8, 1876; Jan'y 11, Sept. 14 and 28, 1880; and April 7, 1885.



No. 7. Tip-Top Ratchet Burner, Polished Brass, price.....\$1 25

Same, Nickel Plated, 3 cents extra, net.

THE DOUBLE CONTACT RATCHET BURNER,



No. 11, is similar in style to No. 7, though it has a doubly sure connection of the movable arm with the body of the burner, and thence to the ground, which removes a difficulty that often causes trouble in the use of electric gas-lighting apparatus. Under this method the German silver wipe-spring is thrown out of the flame on its return to position after making and breaking contact at the burner tip. It will doubtless interest electric contractors to find a burner whose movable electrode cannot be held in the flame "just for fun," until it is softened, and so robbed of its tension. This new burner electrode is not lifted over and through the flame, but under and out of the flame. Our burner arm is arranged not only to avoid sparking or catching on the way back to its normal position, but the wipe-spring is preserved and a more positive ground provided. Cut shows the vibrating arm returning after the lighting is accomplished, with its spring point turned away from the fixed electrode and out of the flame.

Patented Sept. 14 and 28, 1880, and April 1, 1885.

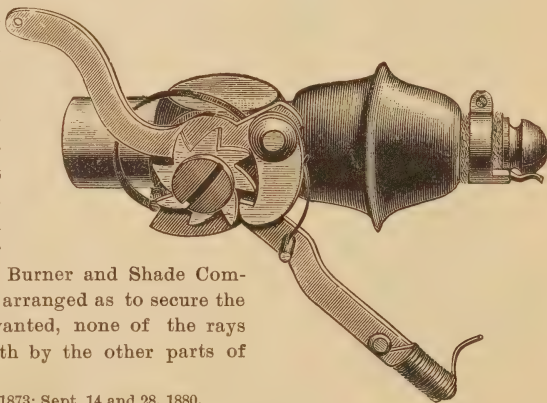
No. 11. Double Contact Ratchet Burner, Polished Brass, price.....\$1 25
Same, Nickel Plated, 3 cents extra, net.

THE BILLIARD TABLE BURNERS, Nos. 23 and 24,

Are the only Electric Gas-burners at all suited for use on billiard tables, and need only to be seen in operation to secure their more general introduction and use.

Hitherto the objection to Billiard Table Burners has centered in the difficulty of so adjusting a shade as to concentrate the light where desired. This has now been accomplished in our New Billiard Table Burner and Shade Combined, which are so arranged as to secure the light where it is wanted, none of the rays being interfered with by the other parts of the apparatus.

Patented June 10, 1873; Sept. 14 and 28, 1880.



No. 23. Simple Billiard Table Burner, Polished Brass, price.....\$0 90

No. 24. Ratchet Billiard Table Burner, Polished Brass, price..... 1 25

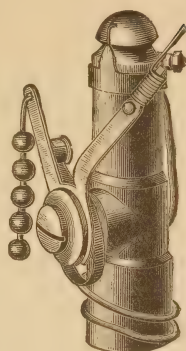
Same, Nickel Plated, 3 cents extra, net.

The Improved Shade for Billiard Table Burners, price..... 2 25

THE SIMPLE FACTORY HAND-LIGHTER.

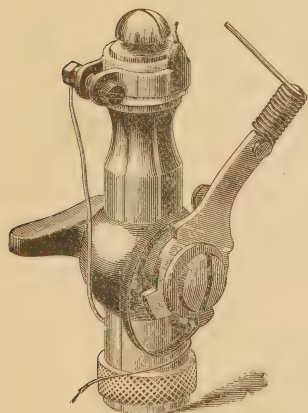
No. 9 operates in the same way as No. 5, and is a simple, cheap and durable burner, especially adapted for use in factories and workshops. It is now made with platinum fixed electrode, and has been otherwise improved.

Patented August 8, 1876; Sept. 14 and 28, 1880. Improved December, 1887.



No. 9. Simple Factory Hand-lighter, Dipped and Lacquered, price.....\$0 45

THE NEW THUMB-COCK BURNER.



No. 13 has an attachment upon the small end of the gas-cock, located in the base of the burner, consisting of a vibrating arm with an elongated hole, tripping pin and cam. By the opening movement of the gas-cock the vibrating arm with its elastic contact point, is forced against and past the fixed electrode, tripped and returned by means of the retractile spring, leaving the gas turned on and lighted—a quarter turn of the thumb-cock, backward, extinguishes the gas. The operation is such that short-circuiting at the electrodes is next to impossible.

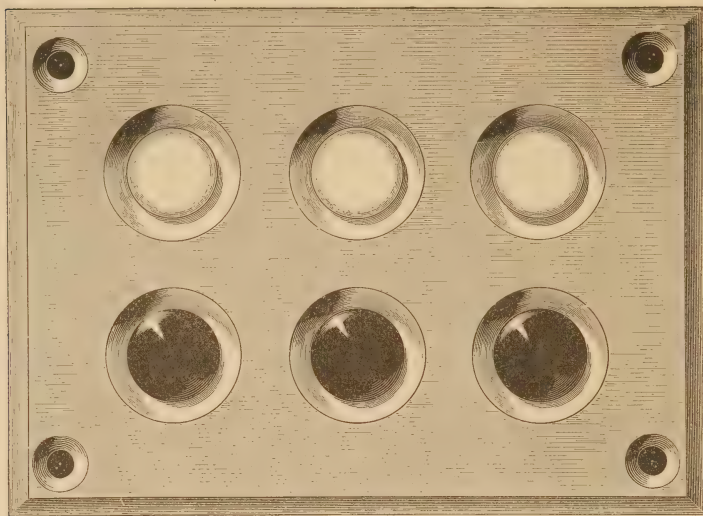
No. 14. New Thumb-Cock Burner, Polished Brass, price.....\$1 30.
Same, Nickel Plated, 3 cents extra, net.

GAS FITTINGS USED IN ELECTRIC GAS LIGHTING.

	Per Doz
No. 185. Brass Rising Nipples, for burners in small globes.....	\$0 30
" 186. " " " with Empire Checks.....	0 36
" 188. Brass Shoulder Nipples, male thread each end, $\frac{3}{8} \times \frac{3}{8}$, $\frac{3}{8} \times \frac{5}{16}$, $\frac{3}{8} \times \frac{1}{4}$, $\frac{5}{16} \times \frac{1}{4}$	0 48
" 189. Brass Elbow Nipples, male and female thread, each $\frac{3}{8}$, angle 90 degrees.....	1 00
" 190. Brass Elbow Nipples, male each end, thread $\frac{3}{8} \times \frac{5}{16}$, angle 90 d. 1 00	
" 191. Brass Elbow Nipples, male each end, thread $\frac{3}{8} \times \frac{5}{16}$, angle 45 d. 1 00	
" 194. Brass Burner Pillars, for lava tips.....	0 15

KEYS FOR OPERATING AUTOMATIC GAS BURNERS.

Improved Metal Key.—Style A.

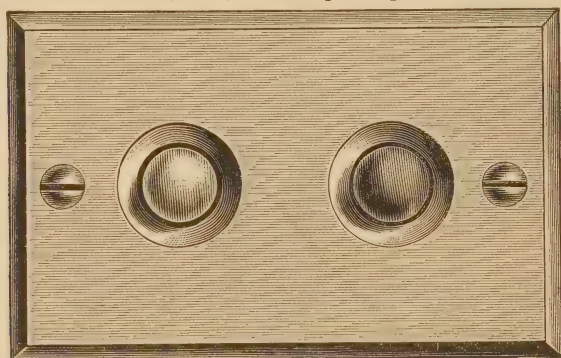


Handsomely finished in polished brass, light or dark bronze, or nickel plated face, with ivory or pearl buttons, platinum points, and German silver springs.

Price List.—Style A.

	Ivory.	Pearl.		Ivory.	Pearl.
2-Button Key, 1 Auto.....	\$0 48	\$0 56	8-Button Key, 4 Auto.....	\$1 25	\$1 56
4-Button Key, 2 Auto.....	0 72	0 78	10-Button Key, 5 Auto.....	1 52	1 92
6-Button Key, 3 Auto.....	1 00	1 24	12-Button Key, 6 Auto.....	1 78	2 20

The R. C. Metal Key.—Style B.



This Key is finished in nickel plated, light or dark bronze face, with ivory or pearl buttons, and rubbing inside contact points, enclosed to protect them from plaster, dust and dampness. It has strong screw connections on the outside bottom casing.

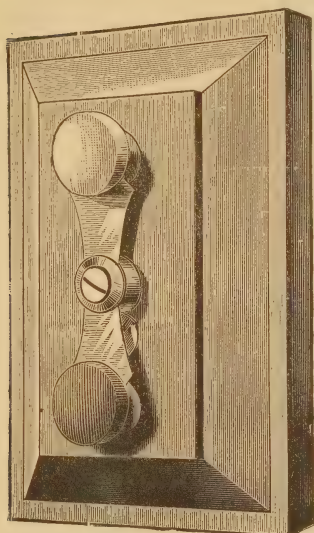
Price List.—Style B.

	Ivory.	Pearl.		Ivory.	Pearl.
2-Button Key, 1 Auto.....	\$0 60	\$0 64	8-Button Key, 4 Auto.....	\$1 40	\$1 72
4-Button Key, 2 Auto.....	0 80	0 96	10-Button Key, 5 Auto.....	1 64	2 00
6-Button Key, 3 Auto.....	1 08	1 32	12-Button Key, 6 Auto.....	1 88	2 36

KEYS FOR OPERATING AUTOMATIC GAS BURNERS.

Wood Base Automatic Keys.—Styles C and D.

In Black Walnut, Ash, Oak, Plain Cherry, Stained Cherry and Mahogany Bases, Fine French Finish.



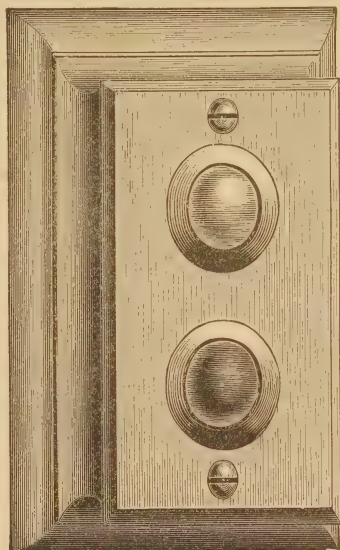
Style C.

Has platinum points, German silver springs, nickel trimmings, ivory buttons and screw connections.

PRICE LIST.—STYLE C.

	Ivory.
2-Button Key, 1 Automatic..	\$0 48
4 " " 2 " ..	0 88
6 " " 3 " ..	1 16
8 " " 4 " ..	1 56
10 " " 5 " ..	1 88
12 " " 6 " ..	2 16

Please to note reduction of prices on Automatic Keys.



Style D.

Has rubbing inside contact points, ivory or pearl buttons and nickel trimmings. New style and elegant goods.

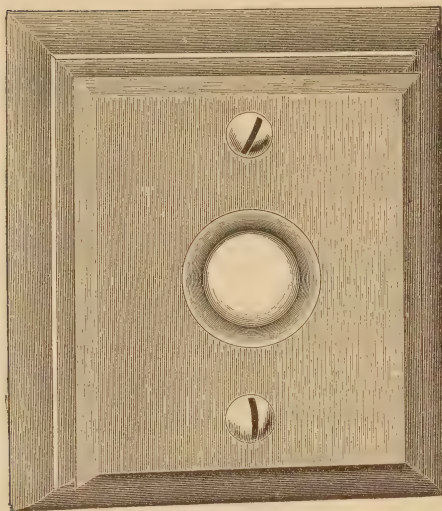
PRICE LIST.—STYLE D.

	Ivory.	Pearl.
2 Button Key, 1 Auto.	\$0 40	\$0 52
4 " " 2 " ..	0 64	80
6 " " 3 " ..	0 88	1 12
8 " " 4 " ..	1 08	1 40
10 " " 5 " ..	1 32	1 72
12 " " 6 " ..	1 52	2 04
14 " " 7 " ..	1 76	2 36
16 " " 8 " ..	2 00	2 64

Other sizes made to order. Suitable Screws furnished.

These goods are designed to supply the demand for a better quality of gas-lighting material, suitable for first-class residences, etc. They should not be confounded with the cheap imitations that have so seriously injured electric gas-lighting business. In fact, the difference is so apparent that our customers need not be deceived, even with their eyes closed.

KEYS FOR OPERATING THE "TRIUMPH" AUTOMATIC.



Style D, Key or Push. Full Size.

The Style D Push-Buttons

are made with the same elegant finish and inside rubbing contact points as the Style D Wood Base Automatic keys, so favorably known. They are designed for Bell and Annunciator Calls, as well as for the new Single Wire Automatic Burner. For the latter, one button only is required for each burner. Made in Black Walnut, Ash, Oak, Mahogany, plain and stained Cherry; with Ivory or Pearl Buttons.

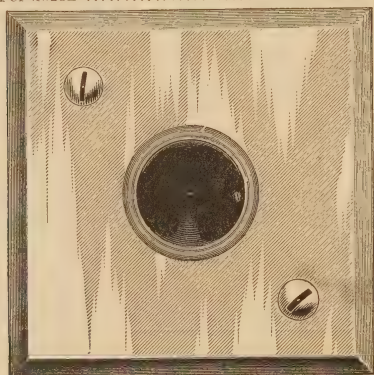
PRICE LIST.

	Ivory. Pearl.			Ivory. Pearl.	
1 Push.....	\$0 28	\$0 36	6 Push.....	\$0 88	\$1 16
2 ".....	0 40	0 52	7 ".....	1 00	1 32
3 ".....	0 52	0 64	8 ".....	1 12	1 44
4 ".....	0 64	0 76	9 ".....	1 23	1 60
5 ".....	0 76	0 96	10 ".....	1 32	1 76

Square or Diamond Shape Pushes.

A very neat Push, designed for the Triumph Automatic Burner and general Call-bell use; finished in light or dark Bronze, with Ivory or Pearl Buttons.

Price, each, nickel plated.....\$0 40
Per dozen.....4 32



METAL PUSH, No. 23.



Style D, 3-Button Call.
Two-third Size.

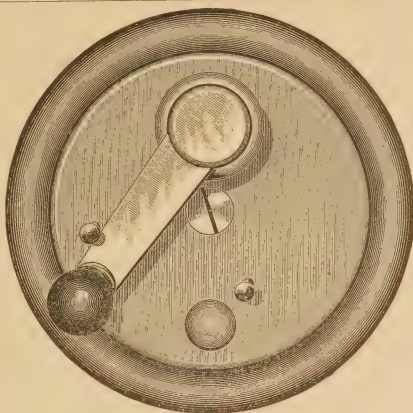
WOOD AND RUBBER BASE SWITCHES.

Our Switches are well made and nicely finished with mahogany, black walnut, plain or stained cherry, oak or ash bases.

Arms polished brass or nickel plated, with hard rubber handles and screw connections in recessed backs. The arms will not loosen. First-class goods.

PRICE LIST.

1-Point Switch.....	\$0 28
2 " ".....	0 32
3 " ".....	0 40
4 " ".....	0 44
5 " ".....	0 60
6 " ".....	0 68



CUT FULL SIZE.

We also make up a fine line of Circular Rubber Base Switches from one to ten points, metal part nickel plated.

No. of Points:	1	2	3	4	5	6	7	8	9	10
Price List:	\$1 12	\$1 20	\$1 25	\$1 33	\$1 65	\$1 70	\$1 77	\$1 82	\$1 90	\$1 95

ELECTRIC GAS-LIGHTING SUPPLIES.

PARTS OF AUTOMATIC AND PENDANT BURNERS.

We can at all times furnish duplicate parts of our burners, if required, for repairs.

German silver Wipe Springs, for either of ten styles of Hand-lighters, price, per dozen, net.....	\$0 15
Brass Collars with screws, nuts, Platinum electrodes and Asbestos insulation, used on 12 styles burners, complete, price, per dozen, net.....	1 20
Vibrating Arms for either style of Hand-lighters, <i>without</i> wipe spring, pawl or pawl spring, per dozen, net.....	0 60
Vibrating Arms for either style of Hand-lighters, <i>with</i> wipe spring, pawl, and pawl spring, fitted, per dozen, net.....	1 20
Retractile Spring for either style burner, fitted, per dozen, net.....	0 15
Plated Iron Tips for No. 18 Porcelain Burner, price, per dozen, net.....	0 72
Ordinary Schwartz Lava Tips, per dozen, net.....	0 36

CHAIN AND PULL MATERIAL FOR HAND-LIGHTING BURNERS.

	Price, per yd.	In 25 yd. lots.	In 50 yd. lots.	In 100 yd. lots.
Bead Chain, polished brass.....	\$0 18	\$0 16	\$0 14	\$0 12
gold, silver or nickel plated.....	0 32	0 28	0 24	0 20
Link Chain, double or single, gold, silver or nickel plated.....	0 18	0 16	0 14	0 12

Special Rates on Chain in Larger Quantities.

ACORNS.—PRICE LIST.

	Per doz.	Per 50.	Per 100.
Solid Brass, dipped and lacquered, for bead chain.....	\$0 56	\$2 16	\$4 00
" " gold, silver or nickel plated, for bead chain.....	0 64	2 33	4 33
" " " " " " link ".....	0 72	2 83	5 33
Hollow " " " " " " bead ".....	.....	4 16	8 00
" " " " " " link ".....	.....	4 16	8 00
Cups and Pins, " " " " " " bead ".....	0 20	.....	1 00
Solid Glass Balls, 3/4-inch diameter, gold or silver plated mountings, for use (with link or bead chains) on crystal fixtures; new and handsome for any fixture.....	1 12	....	....

GAS LIGHTING SPARK COILS.

Spark Coil, plain.....	each \$4 00
" " with safety attachment.....	" 5 00

THE FRANKLIN ELECTRIC LIGHTER.



Height to top of torch, 13 inches; base, $4\frac{1}{4}$ inches square.

The Franklin Cigar Lighter consists of a neat electro-bronze statuette of Columbus bearing a staff and torch. At each side is a receiver for alcohol, into which dips a brush made of silver tinsel.

On slightly rubbing the top of torch with brush a spark is produced, which ignites the alcohol. The spark-producing apparatus (connected to image by flex-wire cord) is contained in a neat box, which may be placed out of sight underneath a counter, or elsewhere.

Price, including battery, \$12.00.

Extra brush tips 25 cents per pair, or \$1 25 per dozen.

BATTERIES AND BATTERY SUPPLIES.



Disque Battery.

Cell, complete.....	\$1 00
“ “ sealed.....	1 20
Porous Cup.....	0 75
Jar.....	0 15
Zinc, amalgamated.....	0 10
Sal Ammoniac, put up in bag.....	0 08

SELF-SEALING, QUICK-ACTING DISQUE LE- CLANCHE BATTERY.



The leading features are, a jar with shoulder projecting inwards, on the paraffined surface of which a paraffined ring of wood rests, through which the Porous Cup and zinc pass. The zinc having a rubber ring both above and below the wooden ring, and the Porous Cup a paraffined shoulder, makes the battery self-sealing. Three holes about half an inch in diameter in the bottom of the Porous Cup, which hangs entirely clear of the bottom, allow the solution to penetrate the ingredients as soon as immersed, and make it quick acting. It will give $1\frac{1}{2}$ volts E. M. F. within one minute after being connected up.

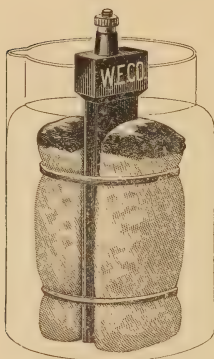
Cell, complete.....	\$1 30
Porous Cup.....	0 80
Jar.....	0 15
Paraffined Wooden Ring.....	0 12
Zinc with Rubber Ring.....	0 12
Sal Ammoniac, put up in bag.....	0 08



Quad Battery.

The best Carbon Battery in the market.

Cell, complete.....	\$0 75
Carbon Elements with Top, complete.....	0 50
Zinc.....	0 10
Jar.....	0 15
Sal Ammoniac.....	0 08



B. B. Battery.

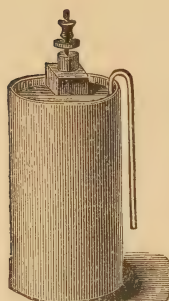
The depolarizing mixture is contained in two bags, which are tied on the opposite sides of the carbon elements, thus allowing free circulation of the solution, which guarantees better results than any other battery of like character.

The elements can be used either with or without glass jar covers.

Cells, complete.....	\$1 00
Bags, filled with the depolarizing mixture, per pair.....	0 50
Carbon, mounted.....	0 15
Glass Jars.....	0 15
Glass Jar Covers.....	0 10
Zincs.....	0 10



Medical.



Cylindrical.



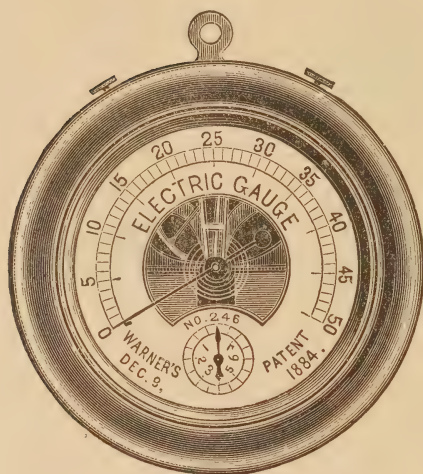
Oval.

Gassner Dry Battery.

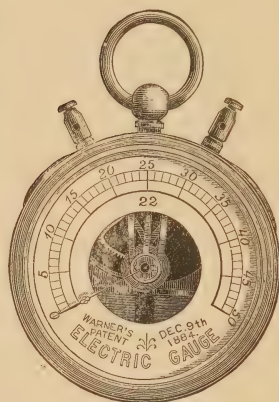
Price List and Description.

		Height.	Width.	
No. 18.	Rectangular (double cell)	7½-in	3¾ × 3½-in	\$3 00
" 17.	" "	7½-in	3⅝ × 1⅞-in	1 50
" 02.	" "	4½-in	2¼ × 1½-in	1 20
" 16.	Cylindrical (enameled)	7-in	3-in. diam	1 65
" 15.	" "	7-in	3-in. diam	1 50
" 10.	" "	5½-in	3-in. diam	1 35
" 19.	Oval	6½-in	3⅞ × 1⅞ in	1 35

GAUGE FOR TESTING BATTERIES.



No. 129.



No. 130.

WARNER ELECTRIC GAUGE.

This Gauge is valuable for testing single cells of a battery. In case of an exhausted or feeble current, touch the terminals of the Gauge to those of each cell and its condition will be shown at once. It can be carried in the pocket, and is intended for the use of inspectors in their daily rounds.

Price.....\$18 00

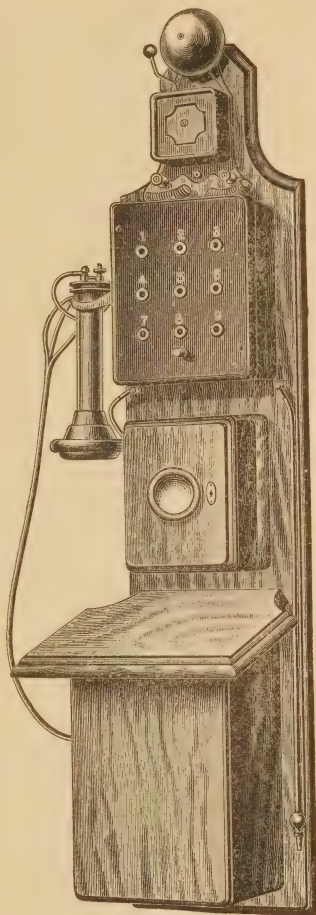
SPEAKING-TUBE TELEPHONE SYSTEM.

For Factories, Offices and Public
Buildings.

This system enables the different parts or offices of a building to communicate with each other without the use of a switch-board or central office. It is in use in our own factory, connecting nine departments, any one of which can talk with any other without disturbing the rest.

Full information and prices on application.

We do not furnish the telephones and transmitters. These are obtained from agents of the American Bell Telephone Company.

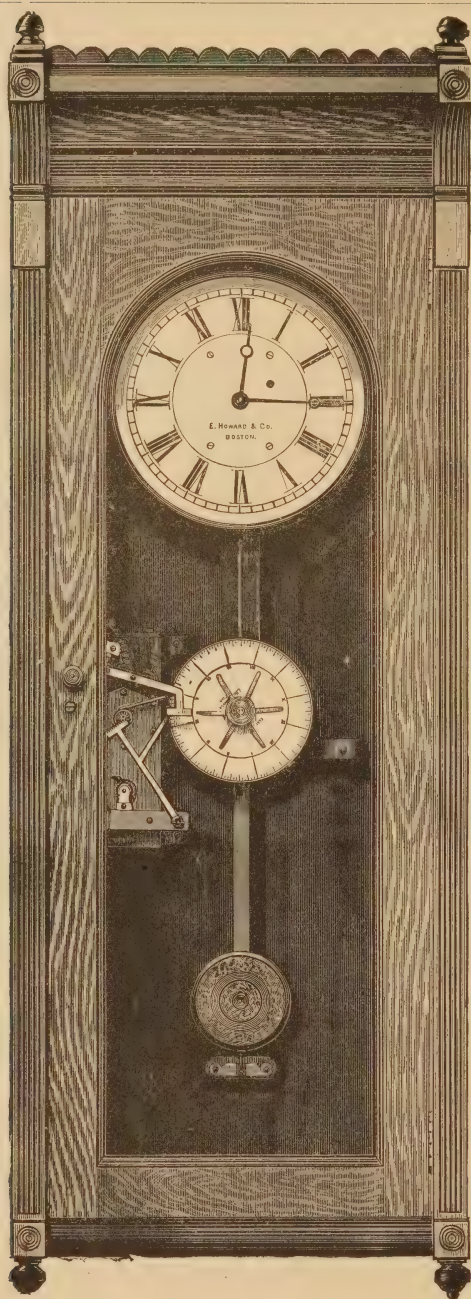


WATCHMAN'S ELECTRIC CLOCK.

See next page.

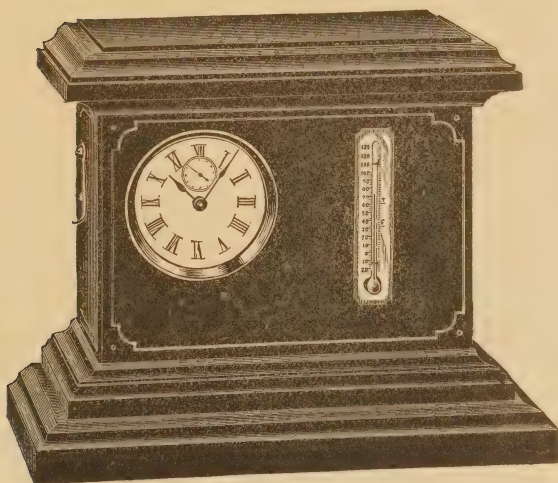
The Electric Watchman's Clock is a device intended for the use of individuals or corporations having buildings which they wish to have guarded against fire or burglars. It gives a guarantee of the presence of the person placed in charge of such buildings.

Full description and price of clock for one or more watchmen and any number of stations sent on application.



Watchman's Electric Clock.

ELECTRIC ALARM CLOCK.



This clock is an improved design, which with the case makes an exceedingly neat and elaborate parlor ornament as well as an alarm clock.

The case is made of wood highly polished and ebonized and lined off with gilt. Attached to the clock is a reliable thermometer made with special regard to accuracy and neatness of appearance. The current is furnished by a dry battery which will last an indefinite time.

Height $9\frac{1}{4}$ inches, width $11\frac{1}{4}$ inches.

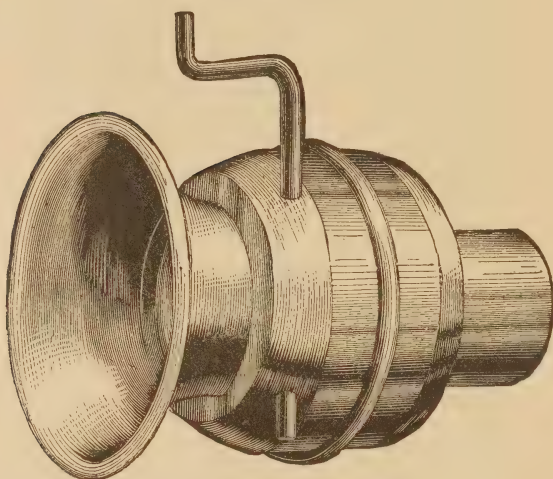
Depth $5\frac{3}{4}$ inches, weight $7\frac{3}{4}$ pounds.

Price.....each, \$7 50

SPEAKING-TUBE SUPPLIES.

THE BEVELED SPEAKING-TUBE WHISTLE.

Patented December 16, 1879.



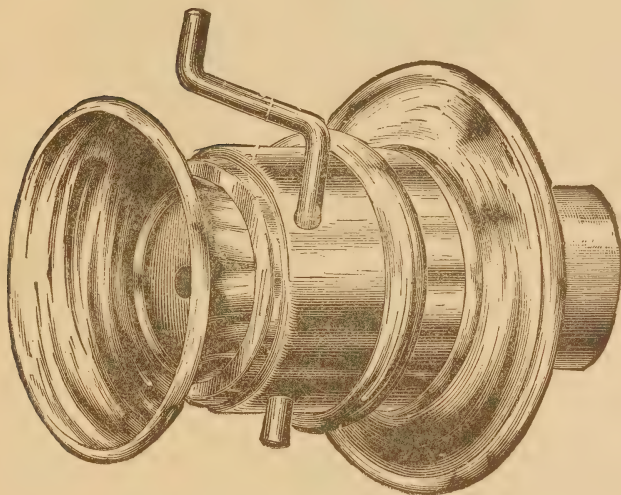
No. 153.

PRICE LIST.

No. 152.	Whistle, with Indicator, nickeled.....	per doz.,	\$12 00
" 153.	" without " "	"	11 00
" 152½.	" with " gold bronze.....	"	14 00
" 153½.	" without " "	"	13 00
" 154.	" with " cast dark or gold bronze,	"	24 00
" 155.	" without " " " "	"	24 00

THE NEW FLANGED DESIGN WHISTLE.

With Fast Rosette or Flange.

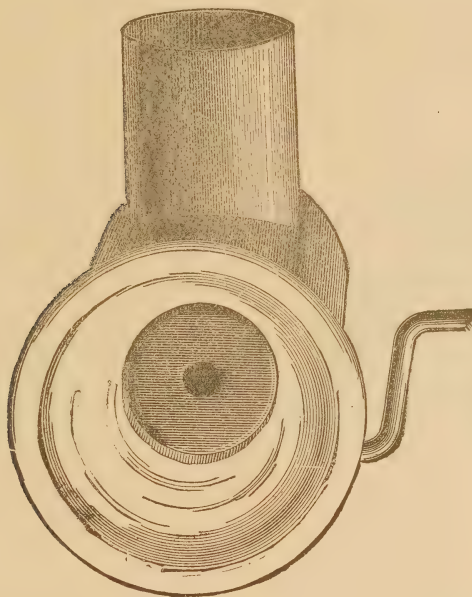


No. 157.

PRICE LIST.

No. 156.	Whistle, with Indicator, nickeled	per doz.,	\$14 00
" 157.	" without " "	"	13 00
" 156½.	" with " gold bronze	"	16 00
" 157½.	" without " "	"	15 00

THE ELBOW SPEAKING-TUBE WHISTLE.



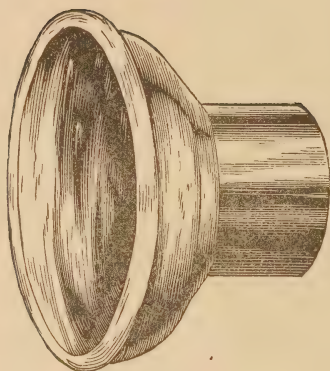
No. 161.

The Elbow Whistle is designed for speaking tubes that run outside of walls and makes a combination of an elbow and a whistle, and brings the mouth-piece close to the wall.

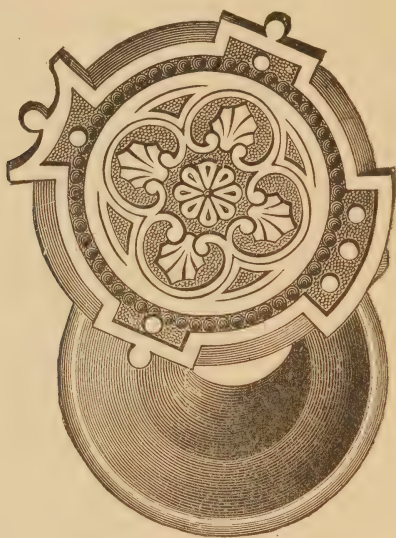
PRICE LIST.

						Per doz.
No. 160.	With Indicator,	japanned	body,	porcelain	mouth-piece.....	\$6 00
" 161.	Without	"	"	"	"	..... 5 00
" 162.	With	"	nickel	"	nickel	" 8 00
" 163.	Without	"	"	"	"	..... 7 00

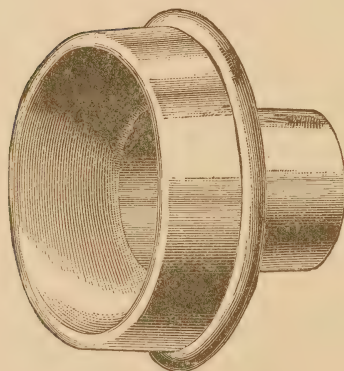
MOUTH-PIECES.



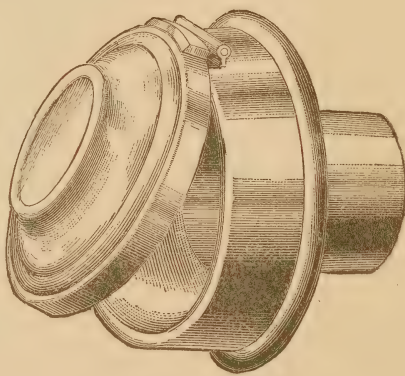
Nos. 36 to 44.
Open, Any Kind of Metal.



No. 46.
Covered, Bronze.

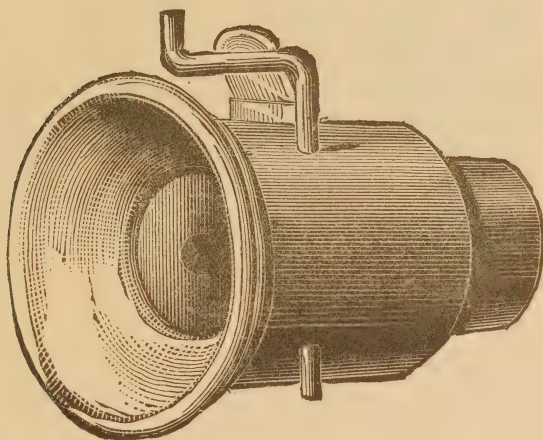


Nos. 53 and 54.
Open.



No. 55 and 56.
Closed.

THE ROUND SPEAKING-TUBE WHISTLE.



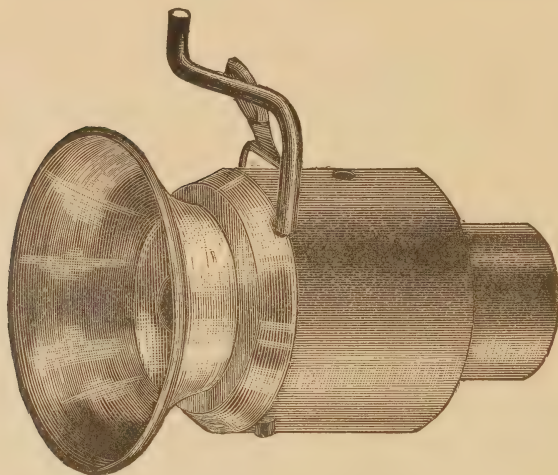
No. 158. Exact Size.

The Round Whistle. This style is made with heavy porcelain mouth-pieces. They are made in two styles, one with *Japanned Body* and the other with *Nickeled Body*. They are stronger and better made than any other cheap whistle and intended for contract work.

PRICE LIST.

No. 158.	Whistle, with Indicator, japanned body	.....	per doz.,	\$4 50
" 159.	" without " " " "	.....	"	4 00
" 258.	" with " nickeled " "	.....	"	6 50
" 259.	" without " " " "	.....	"	6 00

THE NEW ROUND METAL WHISTLE.



No. 158 1-2.

The Round Metal Whistle is made in a substantial manner and nickel-plated on brass. We recommend it as a good medium cost whistle and adapted for general use. Has lately been remodeled.

PRICE LIST.

No. 158½.	With Indicator, nickeled.....	per doz.,	\$7 00
" 159½.	Without " "	"	6 00

THE ROUND METAL WHISTLE.

With Rosewood or Cherry Mouth-Pieces and with Nickeled or Gold-Bronze Bodies.

PRICE LIST.

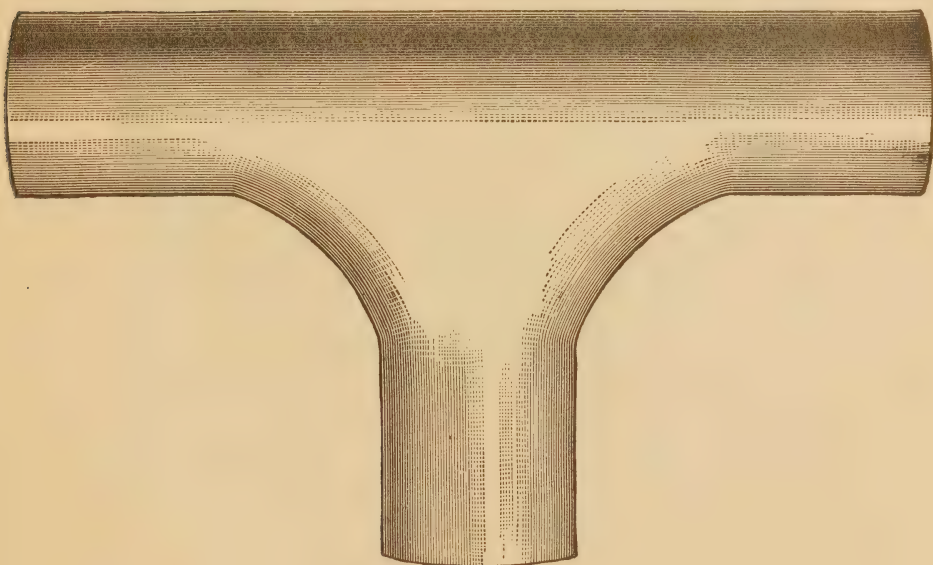
No. 200.	With Indicator, nickel body.....	per doz.,	\$12 00
" 201.	Without " " "	"	11 00
" 202.	With " gold bronze.....	"	14 00
" 203.	Without " "	"	13 00

Orders must state either Rosewood or Cherry Mouth-Pieces.

STAPLES, ETC.

No. 1002.	Steel Staple for 1 -inch Speaking-Tube.....	per lb., \$0 40
" 1001.	" " " 1 $\frac{1}{4}$ " " "	" 0 40
" 1001 $\frac{1}{2}$.	" " " 1 $\frac{1}{2}$ " " "	" 0 40
" 1009.	Wrought-Iron Hooks for 1 $\frac{1}{4}$ and 1 $\frac{1}{2}$ -inch tube.....	" 0 40
" 1010.	" " " " 1-inch tube.....	" 0 40
" 1011.	Staple-Driver for 1 -inch tube.....	each, 0 60
" 1012.	" " " 1 $\frac{1}{4}$ " "	per lb., 0 60
" 1013.	" " " 1 $\frac{1}{2}$ " "	" 0 60

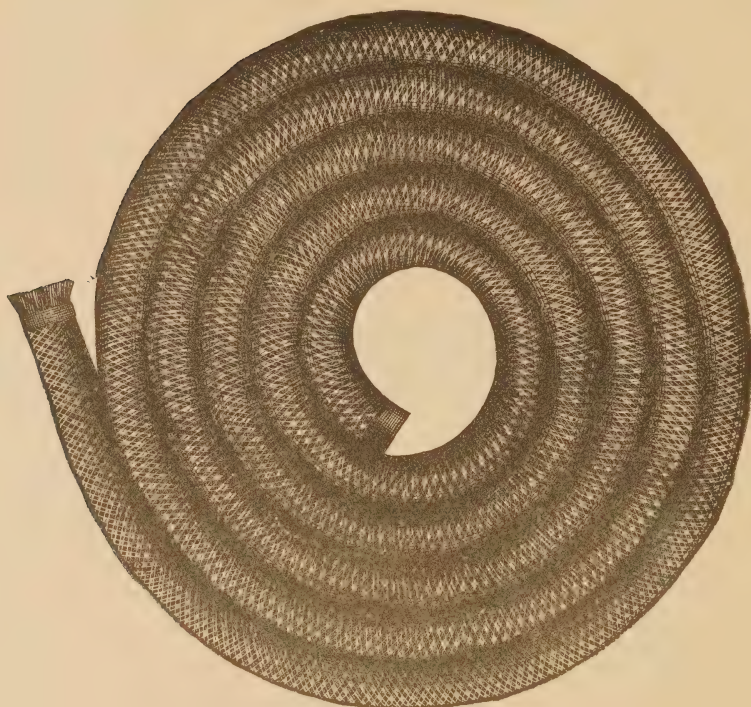
THE STAMPED TEE.



No. 375.

No. 375.	1 -inch diameter.....	per 100, \$10 00
" 376.	1 $\frac{1}{4}$ " "	" 16 00
" 377.	1 $\frac{1}{2}$ " "	" 20 00

FLEXIBLE TUBES.



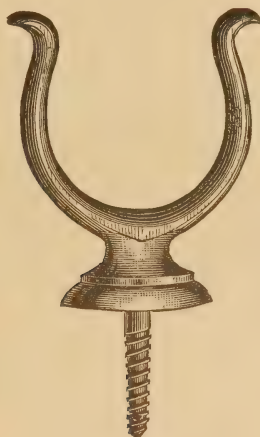
No. 78.

This Flexible Tubing can be used in any position at office desks, at the bed-side, for doctors' use, and many other places. This tube has spiral steel wire insertion and is the only proper flexible tube for speaking-tube use.

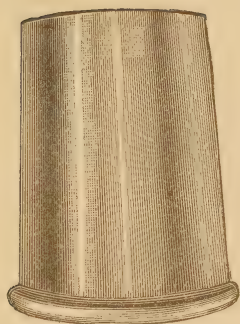
PRICE LIST, FLEXIBLE TUBING.

No. 77.	Common uncovered spiral wire insertion.....	per foot, \$0 60
" 78.	Covered with black and green mohair.....	" 1 00
" 78½.	" " maroon mohair.....	" 1 00

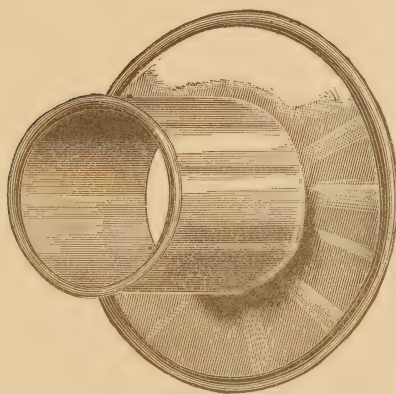
Any color of mohair or silk to order.



No. 85.



No. 79.

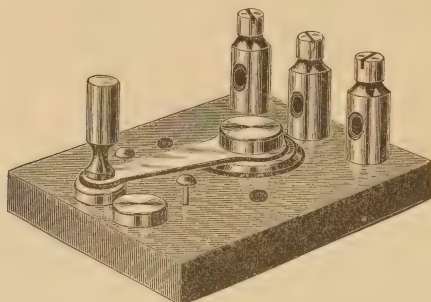


No. 81.

No. 79.	Nickeled Collars for ends, No. 78.....	per doz., \$4 50
" 80.	Gold-Bronze Collars for ends, No. 78.....	" 5 00
" 81.	Nickeled Flange Collars for No. 78.....	" 6 00
" 82.	Gold-Bronze Flange Collars for No. 78.....	" 7 00
" 85.	Nickeled Tube Holder.....	" 6 00
" 86.	Bronze Tube Holder.....	" 6 00

Collars are for protecting ends of No. 78.

SUPPLIES.



SWITCHES. Lever Switch—3 Point.

2 point.....	\$0 80
3 point.....	1 00
Neutral point.....	1 10

OFFICE WIRE.

Nos. 12 to 18, per lb.....	\$0 40
Wound and braided, paraffined, compressed and polished.	

ANNUNCIATOR WIRE.

Nos. 14 to 20, per lb.....	\$0 40
Double wound, paraffined, compressed and polished.	
White, red and white, blue, brown, black or yellow as desired.	

OFFICE CABLES.

From 10 to 100 Conductors, made of any size to No. 20 B. & S. Gauge Copper Wire, covered with cotton, compactly cabled together, and braided in any color or combination of colors.

Paraffine Finish, per pound.....	\$0 50
Paint Finish, per pound.....	0 50
Finer Conductors subject to special prices.	

TAPES.

Kerite Tape, per roll.....	\$0 95
Paragon Tape, per pound.....	0 60
White Rubber Tape, per pound.....	0 65
Okonite Tape, per pound.....	1 50

PLIABLE CORD.

Silk, per yard.....	\$0 15
Silk, 10 strands, per yard.....	0 25
Cotton, per yard.....	0 10
Cotton, 10 strands, per yard.....	0 15
Silk, double, for loops, per yard.....	0 45
Cotton " " ".....	0 25
Silk, double, for pear-shaped Push Buttons, per yard.....	0 30
Tinsel Silk, per yard.....	0 15
Tinsel Cotton, per yard.....	0 10
Flexible Incandescent Lamp Cord, double, Silk, per yard.....	0 18
" " " " " Cotton, ".....	0 09

WE ARE SOLE WESTERN AGENTS

FOR THE SALE OF



Braided Kerite Insulation.

Solid and Stranded Conductors.

List Number.	COPPER.			INSULATION.		Price per 100 feet.
	Size of Wire.	Diam. Solid.	Weight Per 1000 ft.	Kerite Outside Diam.	Kerite Outside Diam.	
	B. W. G.	Mils. =.001 inch.	Solid. Lbs.	Inches.	Mils. =.001 inch.	
B 110	00**	380	437.56	$\frac{30}{32}$ "*	625.	\$45 00
B 111	00	380	437.56	$\frac{31}{32}$ "*	562.5	40 00
B 112	0**	340	350.29	$\frac{15}{16}$ "*	562.5	35 00
B 113	1	300	272.72	$\frac{3}{8}$ "*	562.5	30 00
B 114	1**	300	272.72	$\frac{15}{16}$ "*	500.	28 00
B 115	2	284	244.07	$\frac{3}{8}$ "*	500.	27 50
B 116	2**	284	244.07	$\frac{1}{4}$ "*	437.5	26 00
B 117	3	259	203.27	$\frac{15}{16}$ "*	468.7	24 00
B 118	3**	259	203.27	$\frac{1}{4}$ "*	406.2	21 00
B 119	4	238	171.64	$\frac{1}{4}$ "*	437.5	21 50
B 120	4**	238	171.64	$\frac{1}{4}$ "*	375.	19 00
B 121	5	220	146.66	$\frac{1}{4}$ "*	500.	23 00
B 122	5	220	146.66	$\frac{1}{4}$ "*	406.2	17 00
B 123	5**	220	146.66	$\frac{1}{4}$ "*	375.	15 50
B 124	6	203	124.87	$\frac{1}{4}$ "*	500.	24 00
B 125	6	203	124.87	$\frac{1}{4}$ "*	375.	14 75
B 126	6	203	124.87	$\frac{1}{4}$ "*	312.5	13 25
B 127	6**	203	124.87	$\frac{9}{16}$ "*	281.2	12 25
B 128	7	180	98.18	$\frac{1}{4}$ "*	437.5	18 75
B 129	7**	180	98.18	$\frac{1}{4}$ "*	375.	13 50
B 130	7	180	98.18	$\frac{1}{4}$ "*	312.5	11 50
B 131	8	165	82.50	$\frac{1}{4}$ "*	437.5	18 00
B 132	8	165	82.50	$\frac{1}{4}$ "*	312.5	10 50
B 133	8	165	82.50	$\frac{9}{16}$ "*	281.2	10 00
B 134	8**	165	82.50	$\frac{8}{16}$ "	250.	9 50
B 135	9	148	66.37	$\frac{8}{16}$ "	250.	9 00
B 30	10	134	54.41	$\frac{8}{16}$ "	250.	8 50
B 29	10**	134	54.41	$\frac{7}{8}$ "	218.6	7 25
B 27	12	109	36.00	$\frac{7}{8}$ "	218.6	6 00
B 26	12**	109	36.00	$\frac{6}{8}$ "	187.5	4 75
B 23	14**	83	20.87	$\frac{6}{8}$ "	187.5	4 00
B 22	14**	83	20.87	$\frac{5}{8}$ "	156.2	3 50
B 19	16**	65	12.80	$\frac{5}{8}$ "	156.2	3 25
B 18	16**	65	12.80	$\frac{4}{8}$ "	125.	2 75
B 15	18**	49	7.27	$\frac{3}{8}$ "	93.75	2 25
B 14	19	42	5.34	$\frac{3}{8}$ "	93.8	2 25
B 13	20	35	3.71	$\frac{3}{8}$ "	125.0	2 25
B 12	20	35	3.71	$\frac{3}{8}$ "	93.8	2 15
B 11	20	35	3.71	$\frac{5}{16}$ "	78.1	2 00
B 10	22	28	2.38	$\frac{3}{8}$ "	93.8	2 00

** In stock, other sizes furnished to order.

* Stranded Conductors.



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Western Electric Company,

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Special prices on large quantities.

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All former discounts cancelled.

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21, Extension Bell.....	Net
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22, Relay Bell.....	15 per cent
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108, Office and Annunciator Wire.....	20 per cent
108, Kerite Tape.....	15 per cent
108, Paragon Tape.....	20 per cent
108, White Rubber Tape.....	10 per cent
108, Okonite Tape.....	20 per cent
108, Pliable Cord.....	25 per cent
109, Kerite Wire.....	20 per cent



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